EASTERN NAZARENE COLLEGE

DIVISION OF GRADUATE STUDIES DIVISION OF TEACHER EDUCATION

IMPROVING READING COMPREHENSION THROUGH VISUAL TOOLS

By

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Approved:

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Professor Directing Research Project

Committee Member

May, 2003

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#### Abstract

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Reading comprehension in learning disabled students can be increased with the classroom implementation of visual tools. Student performance was measured using MCAS reading scores before and after the introduction of Thinking Maps, i.e., a set of visual tools which are centered on the development of eight thinking processes. By integrating this common visual language throughout the school's curriculum, it was projected that more effective and efficient learning would be achieved. Assessment results indicated that reading comprehension was increased; it was also observed by classroom teachers that levels of performance rose overall in the following areas: concept attainment, reflective thinking, recall, retention, writing (quantity and quality), creativity, motivation, and cooperative learning skills. These findings are congruent with a multitude of research studies and support the position that student performance can be increased with the implementation of visual tools.

#### List of Related Vocabulary

Massachusetts Comprehensive Assessment System (MCAS): a high stakes achievement test that determines eligibility for graduation in the state of Massachusetts (Massachusetts Department of Education, n.d.).

Fluency: "Reading smoothly, quickly, and with expression" (Tomkins, 2003, 506).

- Graphic organizers: "Diagrams that provide organized, visual representations of information from texts" (Tomkins, 2003, 506).
- Scaffolding: "The support a teacher provides to students as they read and write" (Tomkins, 2003, 507).
- **Visual tools**: Visuals "such as organizers, webs, and thinking-process maps" (Hyerle, 2000, 1) which "show patterns of thinking" (Hyerle, 2000, vi).
- Thinking Maps: "Eight visual tools based on [the eight] fundamental thinking skills"
  (Hyerle, 2000, book jacket); maps include Circle Map, Bubble Map, Double
  Bubble Map, Tree Map, Brace Map, Flow Map, Multi-flow Map, and the Bridge
  Map (Hyerle, 2000, 108).
- **Circle Map**: Thinking Map used for "representing and brainstorming ideas, defining words by showing context clues, and identifying audience and author's point of view" (Hyerle, 2000, 108).
- Bubble Map: Thinking Map used for "expanding descriptive vocabulary, describing characters using adjectives, and providing descriptive details for writing" (Hyerle, 2000, 108).

Double Bubble Map: Thinking Map used for "comparing and contrasting

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 characters, prioritizing essential characteristics, and organizing a compare-and-contrast essay" (Hyerle, 2000, 108).

- **Tree Map**: Thinking Map used for "identifying main idea, supporting ideas, details; organizing topics and details for writing; and taking notes for lectures and research papers" (Hyerle, 2000, 108).
- **Brace Map**: Thinking Map used for "comprehending physical setting in stories, analyzing physical objects from technical reading, and organizing and writing technical manuals" (Hyerle, 2000, 108).
- Flow Map: Thinking Map used for "sequencing story plot by stages and substages, analyzing and prioritizing important events, and sequencing paragraphs for writing" (Hyerle, 2000, 108).
- Multi-flow Map: Thinking Map used for "analyzing causes-effects in literature, predicting outcomes from previous events, and organizing 'if-then' persuasive writing" (Hyerle, 2000, 108).
- **Bridge Map**: Thinking Map used for "comprehending analogies, similes, and metaphors; preparing for testing using analogies; and developing guiding analogies for writing" (Hyerle, 2000, 108).

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#### Strategies for Improving Reading Comprehension

Reading is the foundation for life-long learning. One must be able to master this skill in order to facilitate the learning process. Yet reading is simply not enough; one must be able to understand what one has read and be able to apply the newly acquired knowledge for the benefits to be fully realized.

In America, reading is taught mainly using a basal approach, involving "teacher directed [methodology] with a significant reliance on worksheets, rote learning, and minimal interaction of students" (Kirylo and Millet, 2000, 179). This teaching method has been proven to be only minimally effective, as students do not retain much of what they have read and incorrectly comprehend the material. Two goals of a successful reading program are that students must be able to read on their own and understand what they have read. Teachers, likewise, must become better educators by learning and implementing reading comprehension strategies that will help students reach their goals (Kirylo and Millet, 2000, 180).

One of the challenges which teachers face is how to present information that can be processed successfully by students, particularly those who are categorized as *special needs*. Perhaps the most abstruse task for learning disabled students to execute is making connections with content in textbooks. Texts are not organized for the learning disabled; any student who is a passive learner, or one who "lack[s] skills for processing and organizing written and oral information" (DiCecco and Gleason, 2002, 306), requires explicit instruction and assistance with "making inferences, understanding relationships and connections, distinguishing main ideas from

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significant details, and understanding the gist of the passage" (DiCecco and Gleason, 2002, 306).

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Students typically read a chapter and answer comprehension questions relating to that chapter. Rarely are they given guidance or strategies on how to "decipher text structure and interpret information" (DiCecco and Gleason, 2002, 306). Learning disabled students need a repertoire of strategies, coupled with explicit instruction, to assist with the comprehension of information.

Ciardello writes that, in 1999, an Adolescent Literacy Commission established by the International Reading Association announced that a study they conducted found students lacking in reading skills, including comprehension, summarization, and conceptualization. The commission recommended all middle school and high school teachers teach comprehension across the curriculum. Social studies specifically posed the most significant challenge, due to the abstract method in which complex information is presented in history textbooks. Students are not able to independently read and process a typical social studies textbook, as they have difficulty comprehending the generalized, conceptual patterns of text structure. Consequently, students perceive history to be a collection of non-related events and facts; because of insufficient comprehension, they cannot establish connections between these events and facts (2002, 31). The most common-albeit problematictext structure patterns in textbooks which have emerged are "hierarchical, time order. cause/effect, description, and comparison/contrast"; according to Ciardiello, these five thinking processes pose the most significant obstacle to adolescent students

(2002, 31).

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Students must grow into independent learners; the role of a teacher is to facilitate the transfer of knowledge that makes this goal possible. Since most learning across the curriculum involves reading at various levels, comprehension strategies are particularly important, yet they are rarely taught in a regular classroom; it is assumed that students intuitively know how to understand what they are reading and that comprehension is an automatic skill. In addition, most textbooks present knowledge in a linear mode; in order for students to be able to perceive non-linear relationships, teachers must take advantage of newer, visual approaches (Chang, Sung, and Chen, 2002, 5).

A comprehension strategy promoted by Fournier and Graves is scaffolding, or "providing support to help learners bridge the gap between what they know and can do and the intended goal" (2002, 31). According to Bransford, Brown, and Cocking, scaffolding is one of the most effective instructional procedures. When teachers utilize scaffolding techniques in the classroom, they will cue, question, coach, corroborate, and provide basic information. If it were not for the teachers' facilitation, students would not otherwise be able to complete a task or activity by themselves (Fournier and Graves, 2002, 31).

For many learning disabled students, scaffolding alone is not adequate. Visuals can be an additional, powerful tool to help process and link facts with events. One visual tool that has been proven to work for over thirty years is the graphic organizer; this successful strategy helps sort information and breaks it down into manageable pieces which can then be processed by passive learners. Graphic organizers clearly portray connections between main categories and sub-categories that textbooks fail to establish explicitly (DiCecco and Gleason, 2002, 306). Research confirms their effectiveness when utilized in curriculum planning, assessment, determining student knowledge and misconceptions, and evaluating learning as well as instruction. They enable students and teachers to have an overall snapshot and make connections between concepts, ideas, or categories; another benefit is their flexibility and their ability to be modified or added to as necessary. Graphic organizers can be completed by each student working alone or in groups, or they can be used by an educator to teach a lesson (Irwin-DeVitis, Modle, and Bromley, 1990, 54-57). By creating these visual tools, students become "the engineers of their own investigation" (Irwin-DeVitis, Modle, and Bromley, 1990, 54). Irwin-DeVitis, Modle, and Bromley list six ways in which a teacher can make graphic organizers work in the classroom (1990, 54-57):

- Plan your teaching.
- Tap into students' interests.
- Uncover misconceptions.
- Record data.
- Assess learning.
- Evaluate your instruction.

Chang, Sung, and Chen (2002, 5-6) consider graphic organizers to be a highly beneficial, spatial learning strategy. They affirm that:

the structure of the whole text and the interrelations between concepts are illustrated with a visual method that gives the readers a clearer, more substantial understanding of what is being read.... Text structure and content is easier to retain and retrieve...; impressive results [are achieved] in assisting the reader in memorization and comprehension of text content.

Graphic organizers help students read better by making reading "an active process in which they can build a bridge between prior knowledge and new information" (Kirylo and Millet, 2000, 180). According to Kirylo and Millet,

> activating prior knowledge is critical to the success of obtaining meaning from the text.... Learners relate new knowledge to what they already know, thus assimilating the new information. The construction of graphic organizers encourages the organization of ideas, words, and concepts, assists in making meaningful patterns and connections, and facilitates comprehension and retention of new text. (2000, 182-183)

Spatial formats are a successful strategy that facilitate the integration of scaffolding with visuals in order that information may be sorted and broken down into manageable pieces, thus enabling it to be processed by passive learners. Such visual tools clearly portray connections between main categories and sub-categories that textbooks fail to establish explicitly. Or, by completing a graphic organizer as a pre-reading exercise, the teacher can assist the student in retrieving prior knowledge

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that is critical in establishing the connection between prior knowledge and new concepts. Students are likewise introduced to the reading material in a manner that develops interactive and interpersonal skills (DiCecco and Gleason, 2002, 306).

Research has proven that students retain and retrieve information better when a graphic organizer, rather than an outline, is used, since a graphic organizer is deposited in one's memory much like a picture is stored (Katayama and Robinson, 2000, 120). Kulhavy, Lee, and Caterino have found that "storing text information in both spatial and verbal formats... provide[s] the student with an additional retrieval path for recalling the information.... Two routes are better than one" (Katayama and Robinson, 2000, 120). For students who do not fill out a graphic organizer with useful or thorough information, an option is for the teacher to pass out a partiallyconstructed graphic organizer. The students know precisely what is expected of them, yet they benefit from constructing the organizer themselves (Katayama and Robinson, 2000, 123).

One needs to understand the importance of using graphic organizers before attempting to use them in the classroom. They "communicate both vertical, hierarchical concept relations... and horizontal, coordinate concept relations... that are essential for successful content application to occur" (Robinson, Katayama, DuBois, and Devaney, 1998, p. 17). Winn found that "students may extract more information from a quick glance at a spatial display than they can from a longer viewing of a linear display," such as an outline or general chapter notes; it was also discovered that students "found information needed to answer questions faster than

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when they searched outlines or texts" (Robinson, Katayama, DuBois, and Devaney, 1998, p. 18 and 21). Graphic organizers "facilitate learning of concept relations... in an efficient, spatial format that can be easily searched for information... like [an organized] library... [instead of] one where books are randomly stacked in piles" (Robinson, Katayama, DuBois, and Devaney, 1998, p. 21).

There are numerous methods that facilitate reading comprehension and assist students with determining the meaning of what has been read. Graphic organizers which address sequencing, summarization, questioning, and predicting skills are four of the most effective strategies (Bereiter and Bird, 1985). The Wisconsin Literacy Education and Reading Network (n.d.) have identified six essential reading strategies and graphic organizers that support these strategies (see Appendix E):

- Making connections: KWL (what do you know, what do you want to know, and what have you learned), brainstorming, and LINK (list, inquire, note, know)
- Questioning: KWL, "w" word charts
- Visualizing: guided imagery, story maps, story pyramids
- Inferring: questioning the author, question/answer columns
- Determining importance: KWL, story maps, highlighting

 Synthesizing: Thinking Maps, writing templates, column notetaking Imagine if one had an innovative strategy that would raise test scores significantly, that would help one think more clearly and concisely, that would enable one to "construct, organize, assess, and convey knowledge" even better than a

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 graphic organizer (Hyerle, 1995, 85). There exists a new visual tool published in 1995 called *Thinking Maps* that claims to accomplish these goals, although limited research has been conducted on their actual efficacy. Thinking Maps' creator, D. Hyerle, professes that these enhanced visual tools help students learn more effectively and efficiently; lessons reportedly can be taught in less time with increased retention (Hyerle and Curtis, 2001).

Fifteen years ago, Hyerle discovered that students could complete semantic maps such as brainstorm webs and graphic organizers, but they were unsure of what to do with this information once they had written it down, i.e., they were unable to develop it into a well-organized essay (1995, 85). He studied human thought process and established that spatial formats which address every thinking process could be utilized to "generate and organize... thoughts and ideas, either on paper or by using... software" (Hyerle, 1995, 85). He called these visual tools *Thinking Maps* and began implementing them as comprehension aids at all educational levels, in kindergarten through the twelfth grade (Hyerle, 1995, 85).

Hyerle writes:

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students may exit our schools with the ability to read text, but not build meaning. Our students' *cognitive skills* development—the foundation of every school's goals or mission statement—are randomly supported, rarely raised to the level of fluency, and nearly absent as a distinct dimension of assessment.... And, as we know from our brain research, we must facilitate the *patterning* of content knowledge as a foundation

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for learning. Thinking Maps, as a language of visual tools based on fundamental thinking skills, has been proven as one route for unifying content and process instruction, and assessment of products. (2000, 102)

Hyerle had realized that humans no longer think exclusively in linear patterns. He acknowledges that Thinking Maps help students become independent, motivated learners and enable students and teachers to see what the students are thinking. Flexibility is one benefit to using the maps; they may be adapted in complexity for the student who is using them (Hyerle, 1995, 86-88). Hyerle believes that the principal reason for their success is due to the fact that that they are "a common visual language among students and between students and teachers" (1995, 87-88).

A relevant issue to explore is how Thinking Maps differ from other visual tools, including graphic organizers and brainstorm webs. Graphic organizers are geared towards isolated tasks, as they are highly structured and task-specific; students simply are required to fill-in a worksheet. Webs are more flexible than graphic organizers, allowing the student to record personal knowledge about a topic in an adaptable format. Thinking Maps combine the task-specific structure of a graphic organizer with the flexibility of a web, enabling the student to transfer thinking processes and develop a common visual language that is shared by other students and teachers (Hyerle and Curtis, 2001).

What exactly does this mean? Thinking Maps are based on the eight fundamental thinking skills that everyone possesses: define, describe, compare and

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contrast, classify, divide a whole into parts, sequence, cause and effect, and see relationships. Once students master these eight thinking skills, they are taught how to apply these thinking processes in order to solve problems using Thinking Maps; students then are able to transfer thinking skills across content areas. Thinking Maps are especially unique because, unlike graphic organizers and webs, maps can be used by teachers to teach lessons, they can be used by students as a learning activity, and they can be used as reflective or developmental learning assessment tools by students and teachers alike. Thinking Maps alone develop higher level, critical thinking skills because they complement and promote the eight thinking processes. A student does not just record information—he or she comprehends and manipulates it using metacognitive skills, i.e., a student is required to think about thinking in order to understand and complete the map (Hyerle and Curtis, 2001). "The consistency and flexibility of each of the Thinking Maps promotes studentcentered and cooperative learning, concept development, reflective thinking. creativity, clarity of communication, and continuous cognitive development" (Hyerle, 1995, 89).

The question then arises: are Thinking Maps truly effective in aiding reading comprehension? Substantial research asserts the effectiveness of graphic organizers, yet little officially has been published on Thinking Maps. To be deemed credible, claims must be validated and backed up by proof. When directly asked as to why this dearth of empirical data exists, B. Singer of Innovative Learning Group responded that Hyerle's initial focus has been on promotion of the maps; she states

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that with increased funds will come the money to back research studies (personal communication, December 18, 2002).

The most substantial proof of Thinking Maps' effectiveness has been the considerable rise in test scores in many schools where Thinking Maps have been introduced, particularly when tracked over several years. At the Margaret Fain Elementary School in Atlanta, Georgia, reading scores on the 1996 Georgia State Test of Basic Skills improved by 40% in just one year, with mathematical scores showing a parallel rise of 31%. Thinking Maps achieve such optimal results when implemented comprehensively across the curriculum on a school-wide basis; many other schools have demonstrated similarly large gains in testing scores (Hyerle, 2000, 134).

One of these schools that recently has noticed substantial increases in test scores is a school in eastern Massachusetts. Children who have documented, moderate, language-based learning disabilities receive specialized educational services at this educational institution's elementary, middle, and high schools; currently there are over 300 students from 91 towns across Massachusetts, New Hampshire, and Rhode Island who attend classes there. In September 2002, Thinking Maps were introduced in every grade and in every subject, including counseling, speech, and occupational therapy sessions; shop classes; and electives. Each Thinking Map first was introduced in the students' Language Arts classes, allowing one week for introductory exercises; other content areas reinforced the map the following week after its introduction. Maps which addressed higher-level thinking

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processes with complex cognitive development typically took an additional week for further reinforcement across the curriculum; student progress was monitored continuously to ensure that students were able to internalize the maps and become fluent with the thinking processes.

By December 2002, the Massachusetts Comprehensive Assessment System (MCAS) Retest had been administered, and all but one Thinking Map (the Bridge Map, which the school's students found to be the most abstract and difficult) had been introduced. During the administration of the test, nearly every student used Thinking Maps to organize written information on Language Arts and Mathematics open response questions as well as on the Literature portion of the exam. When the MCAS Retest scores arrived in March 2003, the school's administrators were able to credit significantly improved test scores to Thinking Maps exclusively, as no other variables had been introduced during the academic year, and all classes followed the standard pattern which they have followed the last several years and to which returning students have grown accustomed.

After interpreting 2002 MCAS Language Arts Retest scores, administrators noted that reading comprehension was increased substantially, as evidenced by the rise in scores from 0 and 1 to 3 and 4 (ranging from low to high comprehension ratings); in previous years, out of a field of approximately 45 students, only a few students would score an occasional 3, and a 4 was even more rare, if it even appeared at all. On the 2002 MCAS Language Arts Retest scores, out of a field of 41 students, 13 students scored at least one 3 (and no higher) on an open response

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question, and 20 students scored at least one 4, indicating that comprehension had increased to passing levels for 33 out of 41 students.

With regards to the 2002 MCAS Mathematics Retest scores, out of a field of 56 students, 5 students scored at least one 3 (and no higher) on an open response question, and 24 students scored at least one 4, indicating that comprehension had increased to passing levels for 29 out of 56 students.

The school's students had utilized Thinking Maps as tools for processing and organizing information on the MCAS exam, and the benefits were apparent in their overall scores (see Appendix A). In previous years, a minor percentage of students passed each test; the majority failed. On the 2002 MCAS Language Arts Retest, however, 28 students passed, and 13 failed. Out of the 13 who failed, 8 students came within two points of a passing score. Twenty-six students passed, and 31 failed the 2002 MCAS Mathematics Retest. Seven students came within two points of at the 31 who failed.

Since September 2002, student performance at this school has improved as demonstrated by an increase in vocabulary acquisition, concept attainment, an ability to make connections, and an ability to establish relationships (see Appendix C). The students' overall learning process has been facilitated by the use of these visual tools (see Appendix B). Using Thinking Maps, students have able to develop cognition and comprehension strategies in order that they may bridge the gap between current and projected abilities. As evidenced by the 2002 MACS Retest scores, Thinking Maps have proven to be an integral tool for students to retain and

retrieve content, attain concepts, and forge connections. Teachers' fluency with Thinking Maps is tracked as well, to ensure that students are receiving the maximum benefit possible (see Appendix F).

In lieu of extensive published research, and in addition to increased test scores as reported by many districts, one also could interpret the fact that over 3,000 schools worldwide implement Thinking Maps into their curriculum as evidence that they must work to some degree (B. Singer, personal communication, December 18, 2002).

Reading is elemental for learning; one must be able to master comprehension in order to facilitate knowledge acquisition. Rote teaching methods have proven to be only minimally effective, as students typically do not retain much of what they have read and incorrectly decode the material. This dilemma necessitates that educators change their teaching methods to include strategies that address the development of reading comprehension skills, including retention and retrieval, thus helping students become independent learners.

The past thirty years have yielded a significant amount of research supporting the use of graphic organizers with all student populations to assist with reading comprehension and decoding text structure. Research has demonstrated that visual tools are a viable instructional strategy that enables students to attain concepts and establish connections requisite for proficiency, and that they are an integral component of successful teachers' repertoires of instructional methodologies.

Whichever strategy is utilized, one factor remains constant, the

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importance of using some kind of strategy. As students rarely are able to grasp key concepts and understand content independently, strategies can prove to be invaluable tools for helping students construct meaning from text. When educators are armed with such tools, research corroborates that students, in fact, can make substantial gains in reading comprehension.

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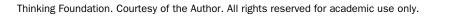
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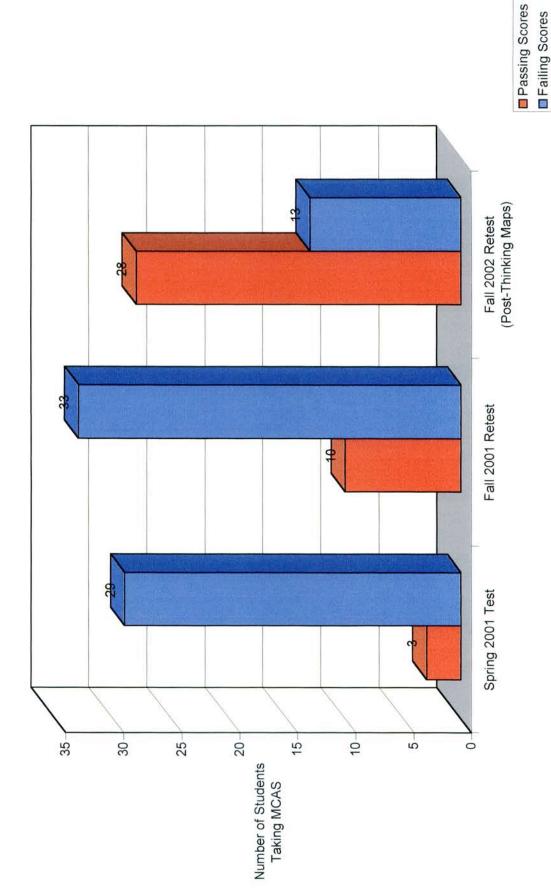
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# Appendix A

Following are an eastern Massachusetts school's MCAS results for the past three tests; MCAS results for Spring 2002 were unavailable.

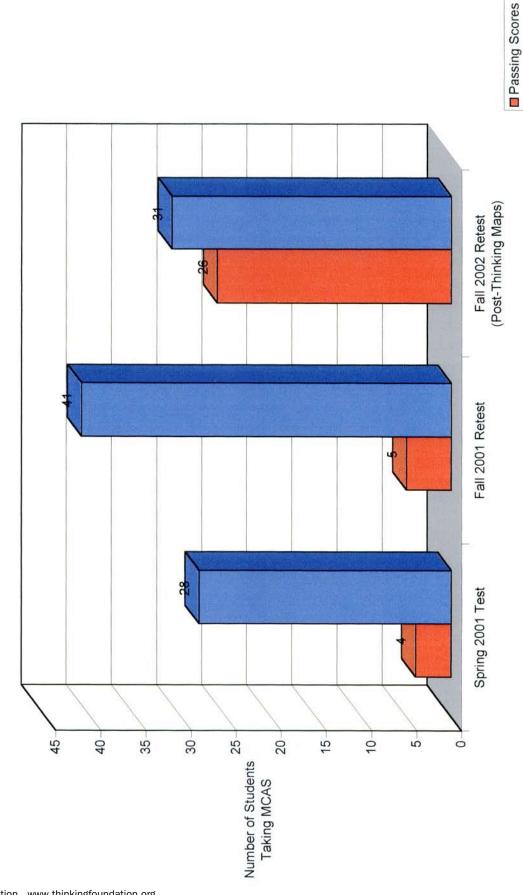
MCAS Results - English Language Arts





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N.B.: Spring 2002 MCAS test results were not available



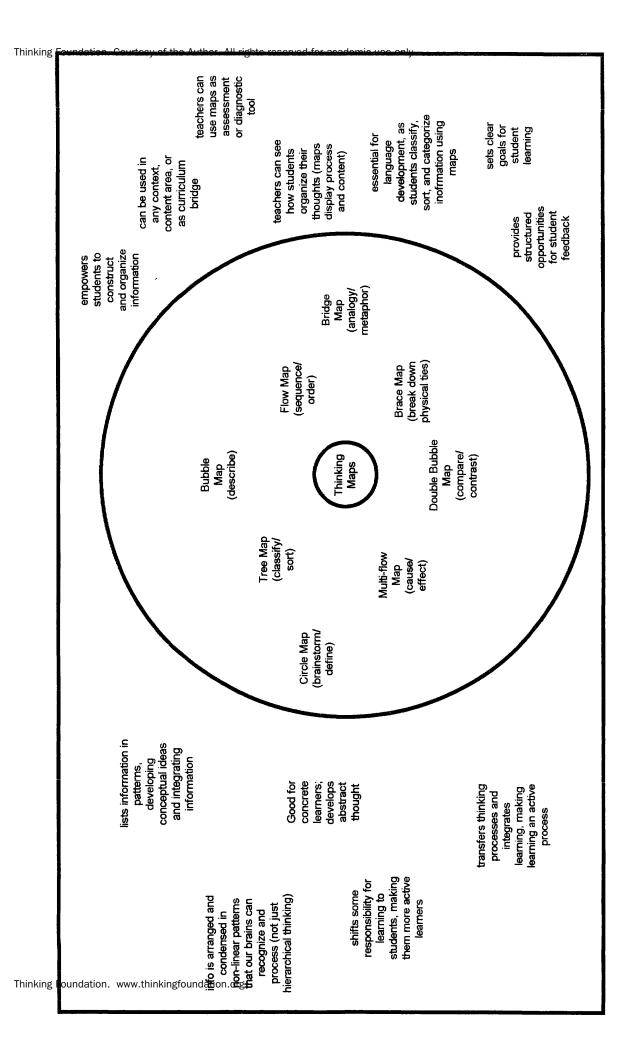
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Failing Scores

### Appendix B

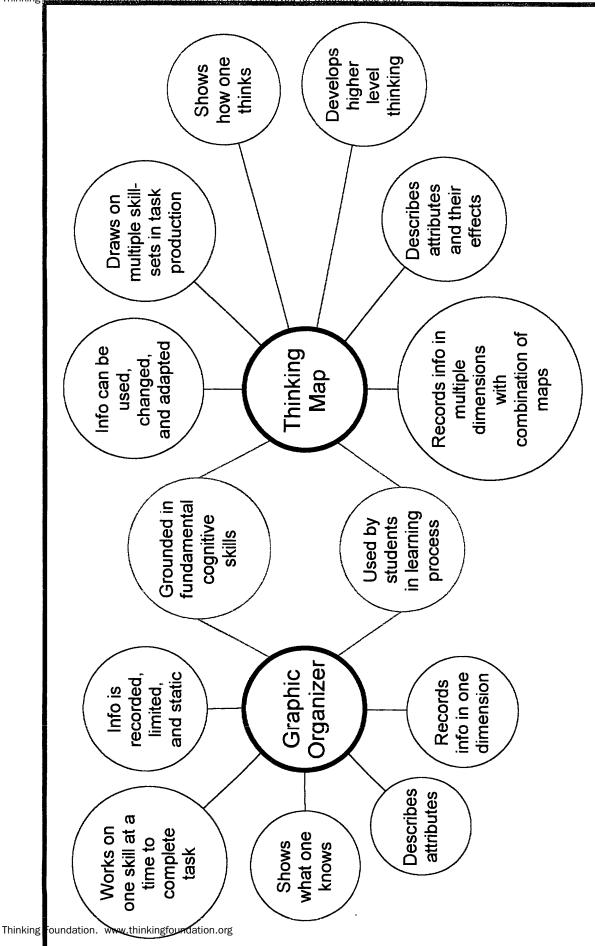
Sample Thinking Maps that were completed at the school in eastern Massachusetts follow; some maps have been constructed using "black line worksheets," or graphic organizer-type handouts. These starter maps were drawn during the introduction phase of Thinking Maps (September 2002 – January 2003). Most students now are expected to construct the maps independently; dysgraphic students are encouraged to utilize Thinking Maps software when drawing maps (samples of which also are included).

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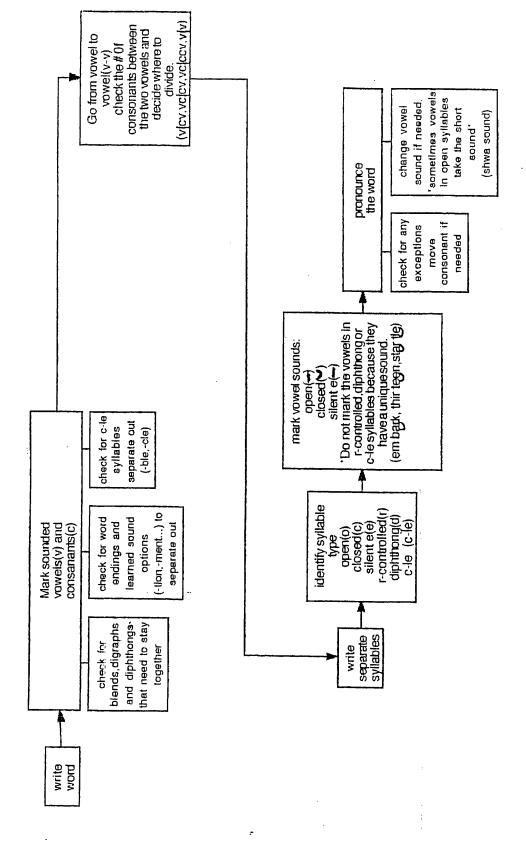
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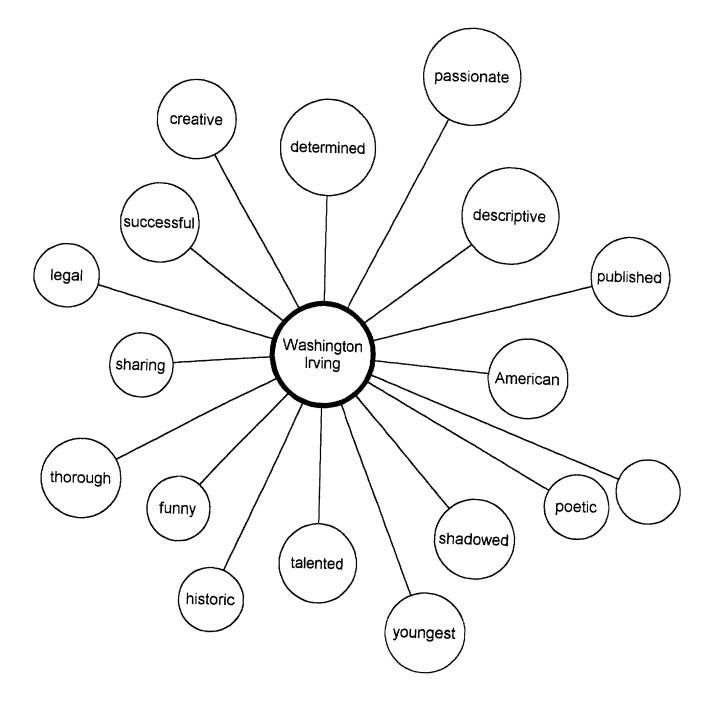


What influenced you on this topic? "defining in context" brainstorm ideas include any knowledge about topic write down phrases, words, fragments "define" circle map avoid using complete sentences can also use symbols, orobjects (like coins) pictures, can use 3 different colors (for topic, circle, and frame of reference) throughout circle scatter ideas How do you know what you know where did you get your information from

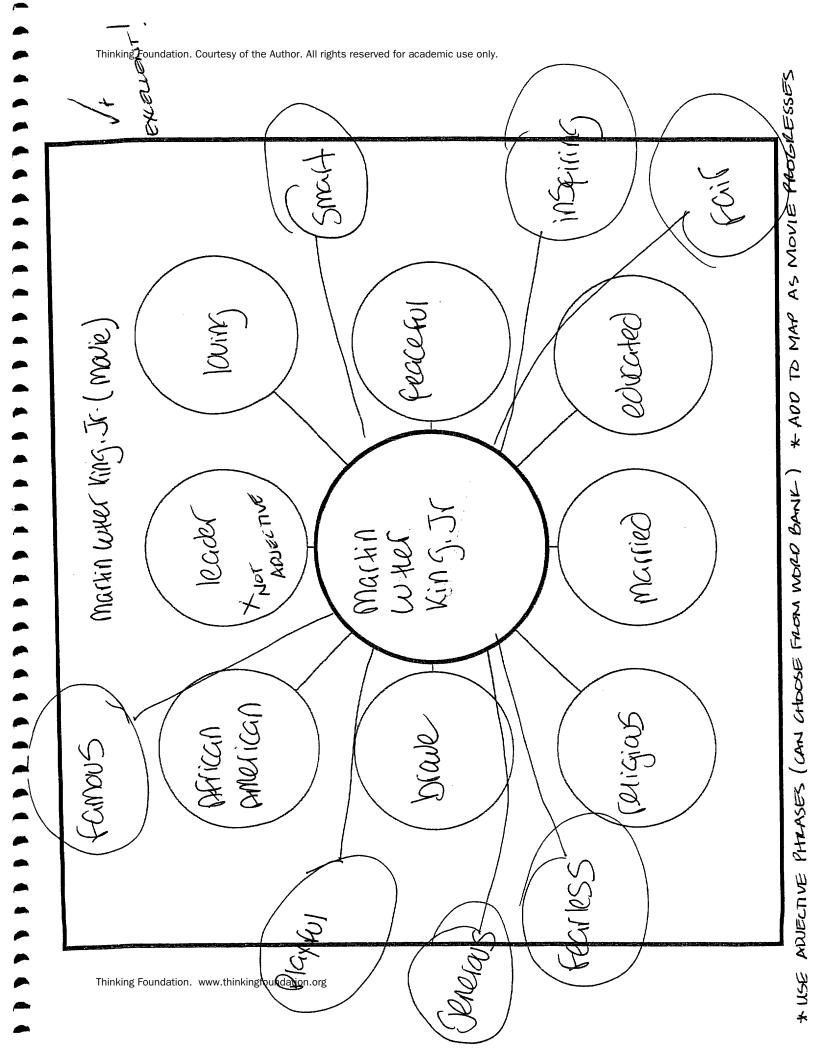
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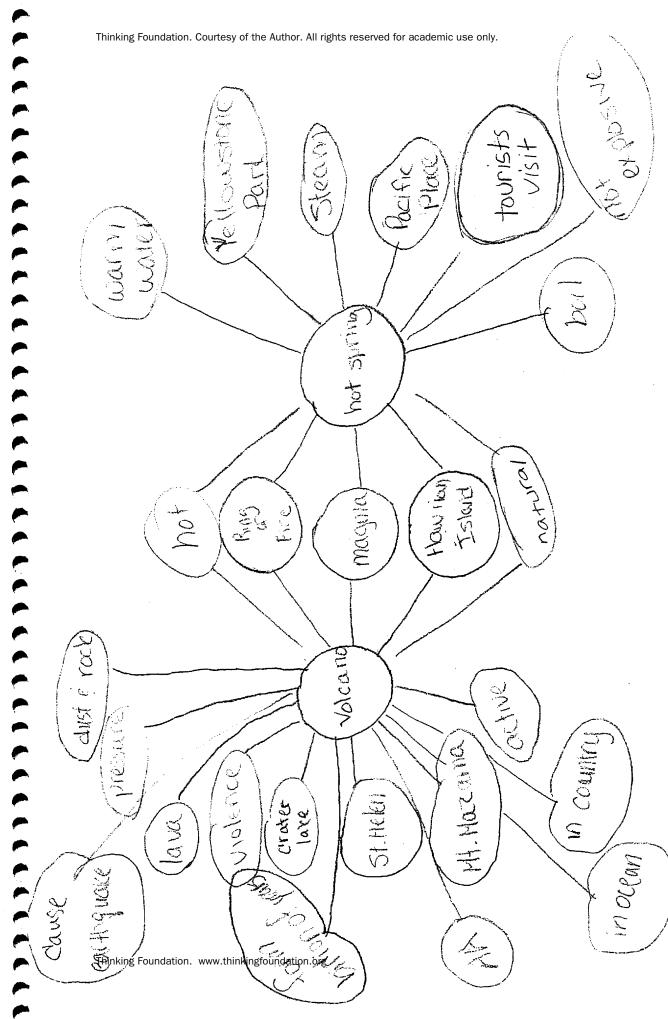


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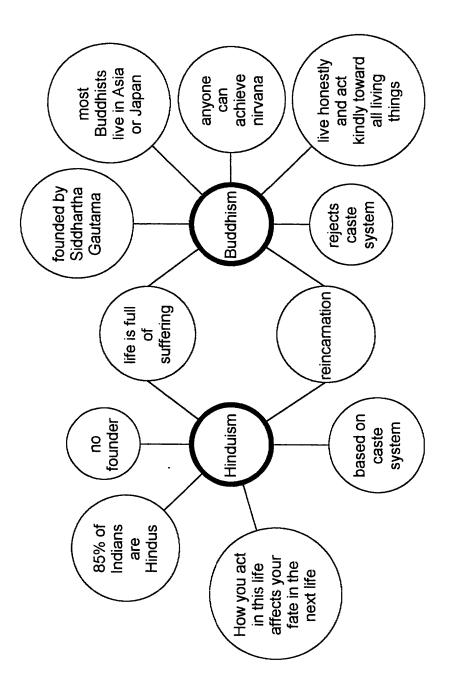


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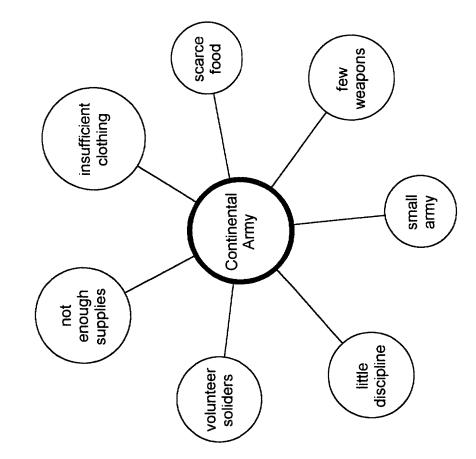
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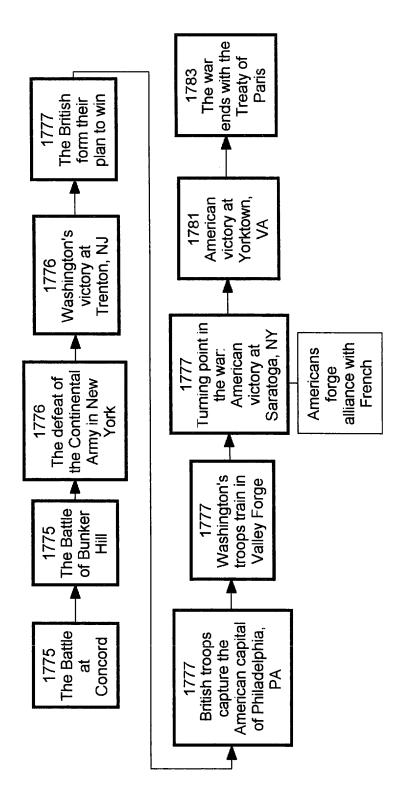


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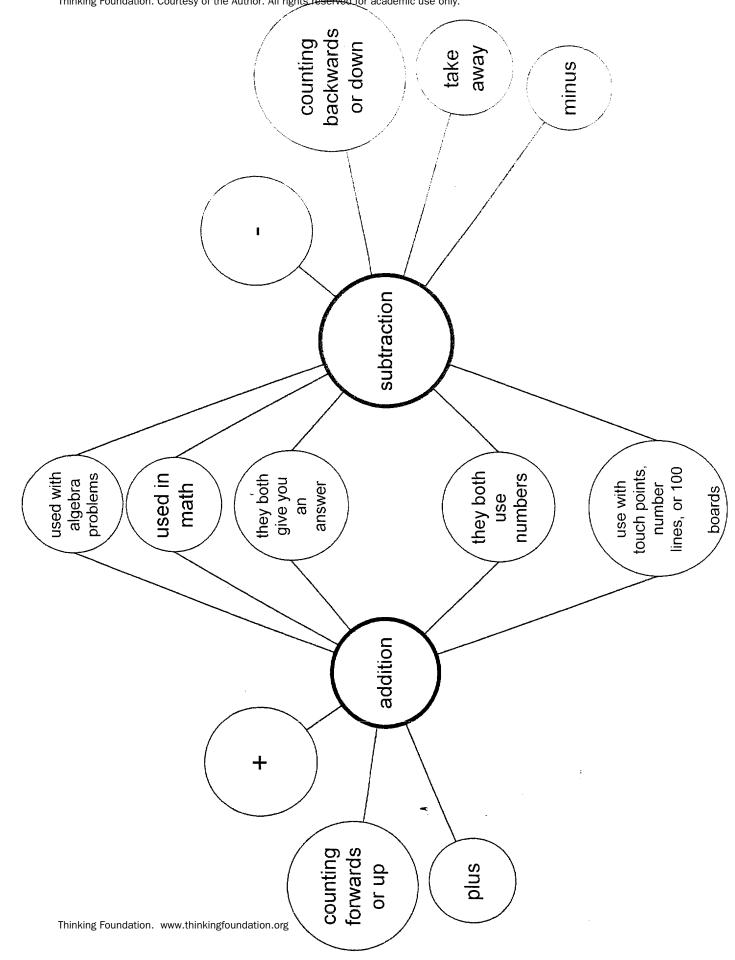


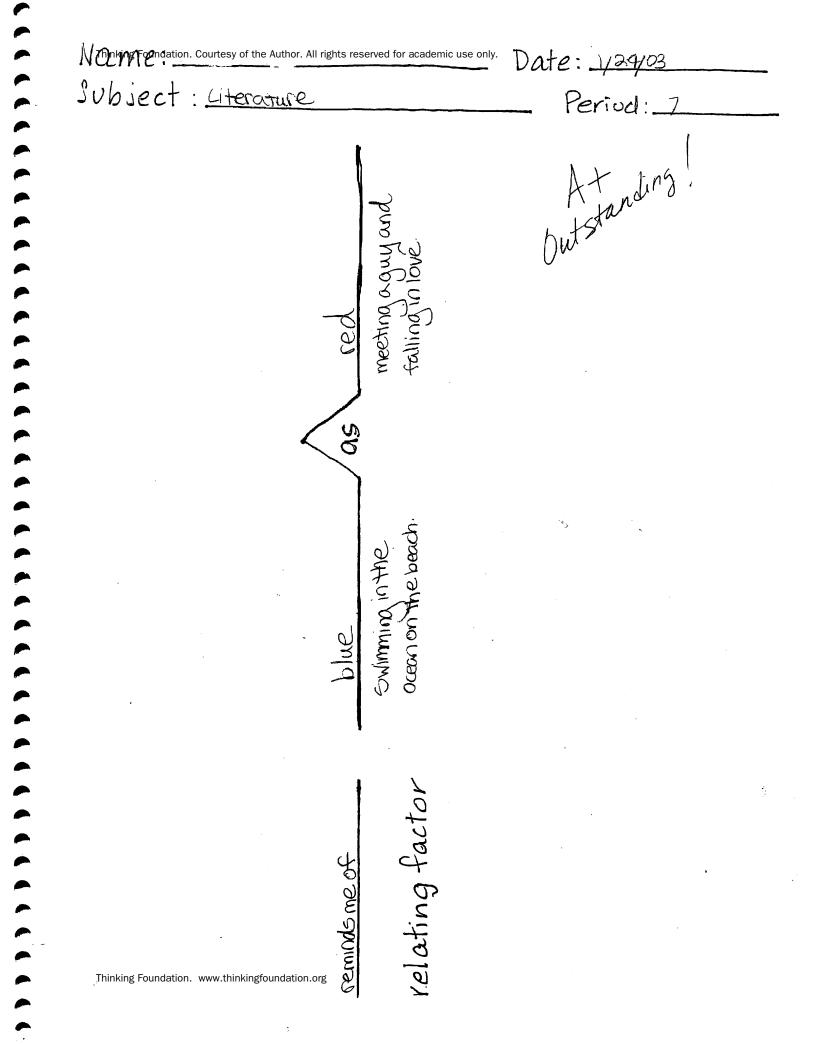
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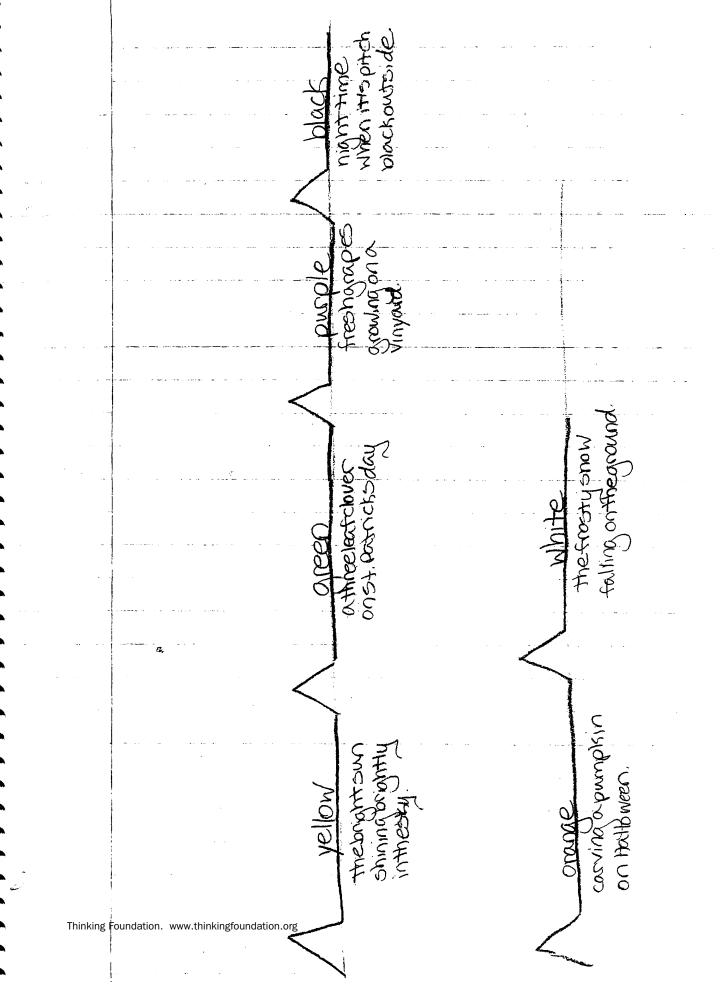
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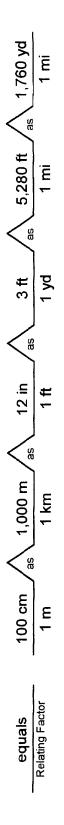
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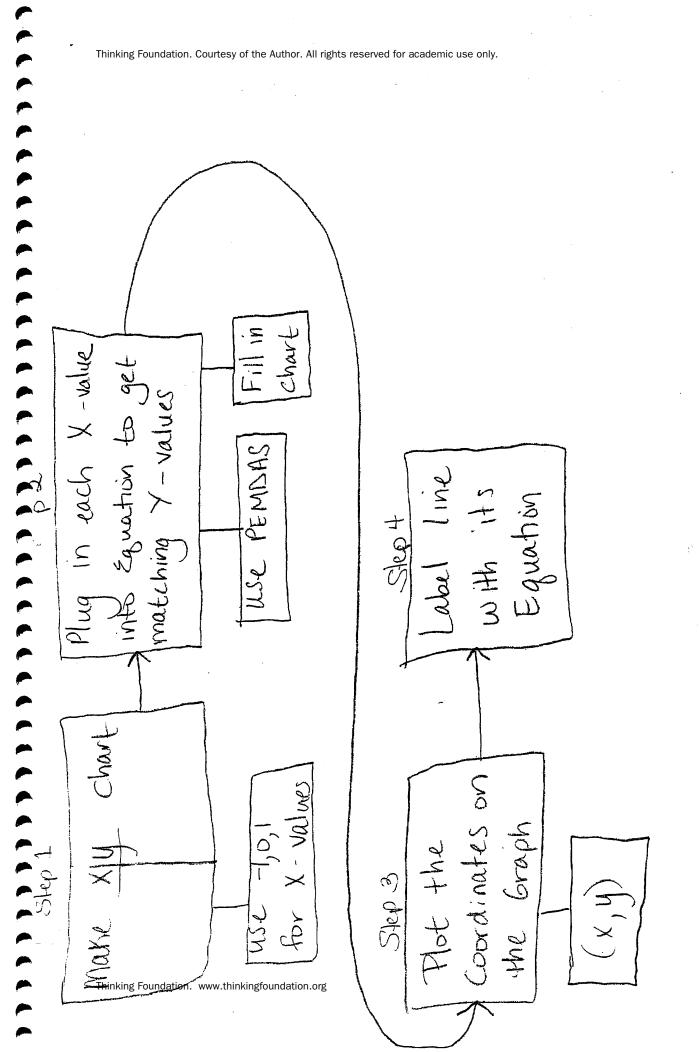
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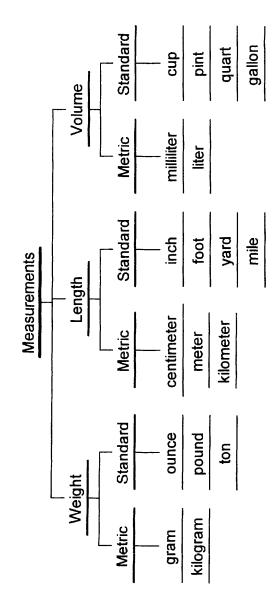
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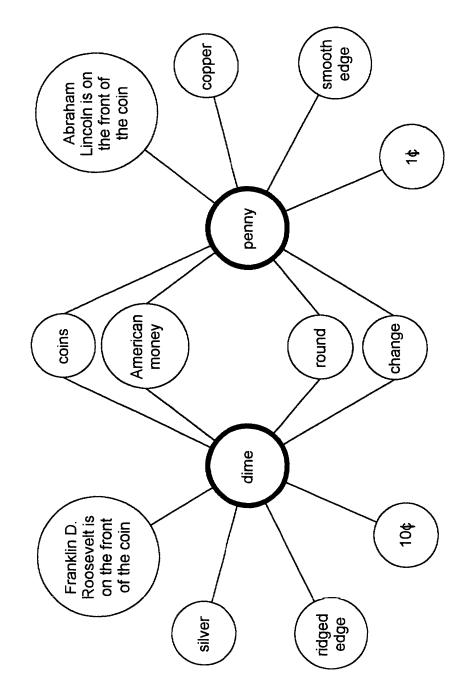
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hinking Foundation. Courtesy of the Author. All rights reserved for academic use only. which were the causes and effects of the clugflight Rontu Could of Botten Killed **EFFECTS** and Rontue closer? HURAN H 50 Name. Island of the Blue Dolphins by Suft O'Dell Day fight EVENT How did the fight bring Karana Critical Thinking (1P) CAUSES on couse Multi-Flow Map He would a 27010-000 1515

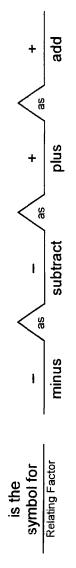
| Literature Multi-Ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |                                      |              |
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| Literature Multi-Fle<br>There are allet of definite class and<br>effects have to do with the class fight. One cause<br>is that Rente was a wild dag and he wanted to a<br>back to see his buddies. A new leader took over Roat<br>Spot and that what started the fight. One reason<br>karana Kept Roatu is because she wanted to free<br>protected against the wild dag. One of the mager<br>effects was that Rontu coold have getten killed in<br>the fight, when Karana Saw the fight she though<br>that she would have to use her new specie<br>Ill fight brought them closer because it shows<br>that karana really cares for Roatu and she was<br>there the which the backing him up. There going to<br>become closer because Rontu doesn't nave a clagged<br>to have out with anymore and I know that Roats                      |            |                                      |              |
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| effects was that Ronty coold have gotten killed in<br>the fight, when Karana Saw the fight she though<br>that she would have to use her new specie<br>The fight brought them closer because it shows<br>that karana really cares for Ronty and she was<br>there the whole time backing him up. There going to<br>become closer because Ronty doesn't have a day good<br>to have out with anymore and I know that Rontz                                                                                                                                                                                                                                                                                                                                                                                                                 |            | 4                                    |              |
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| will back karana up when ever she needs help.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |                                      |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Will back  | - Kavana up when ever she needs help | <b></b>      |
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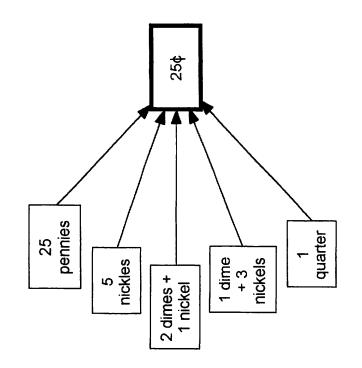
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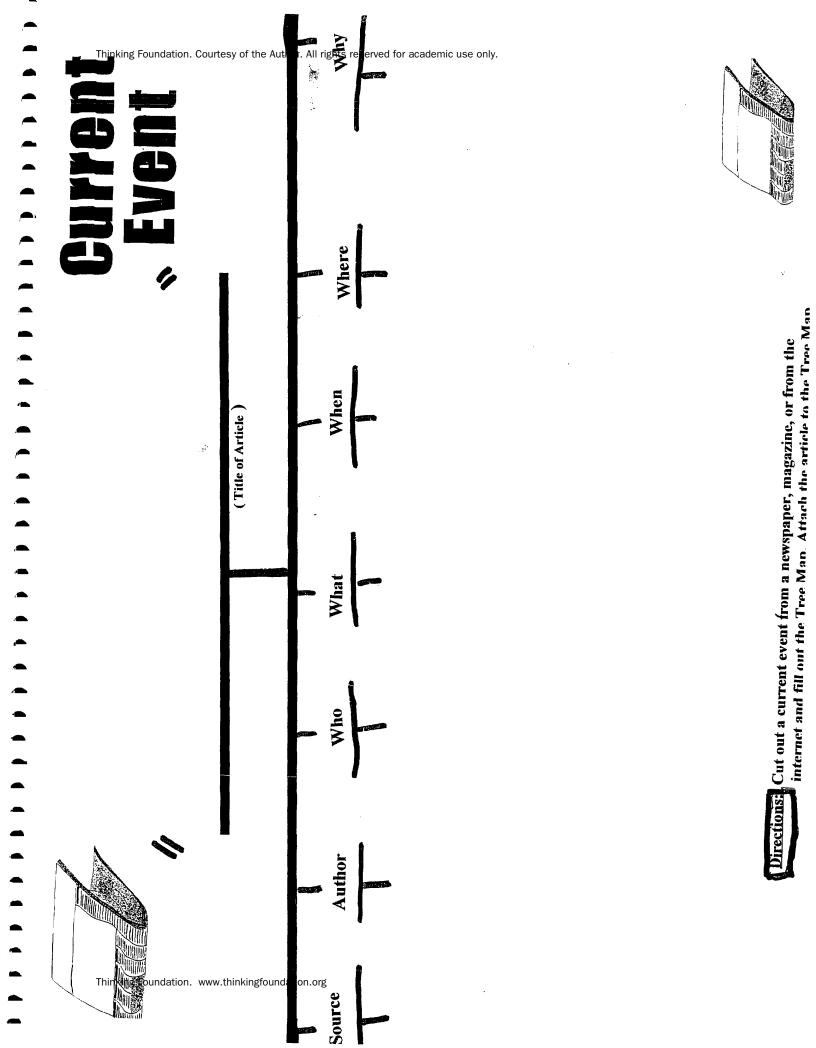
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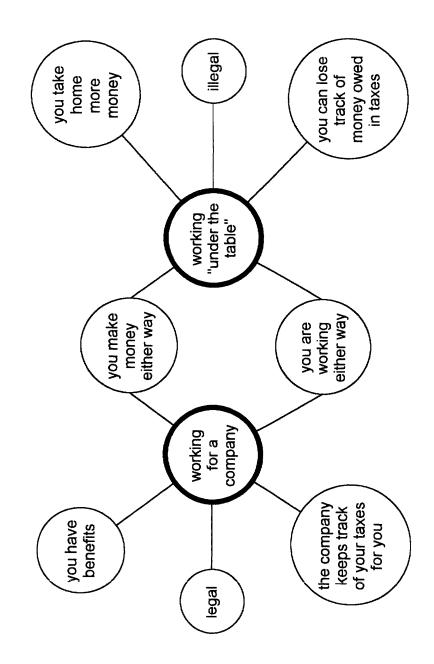
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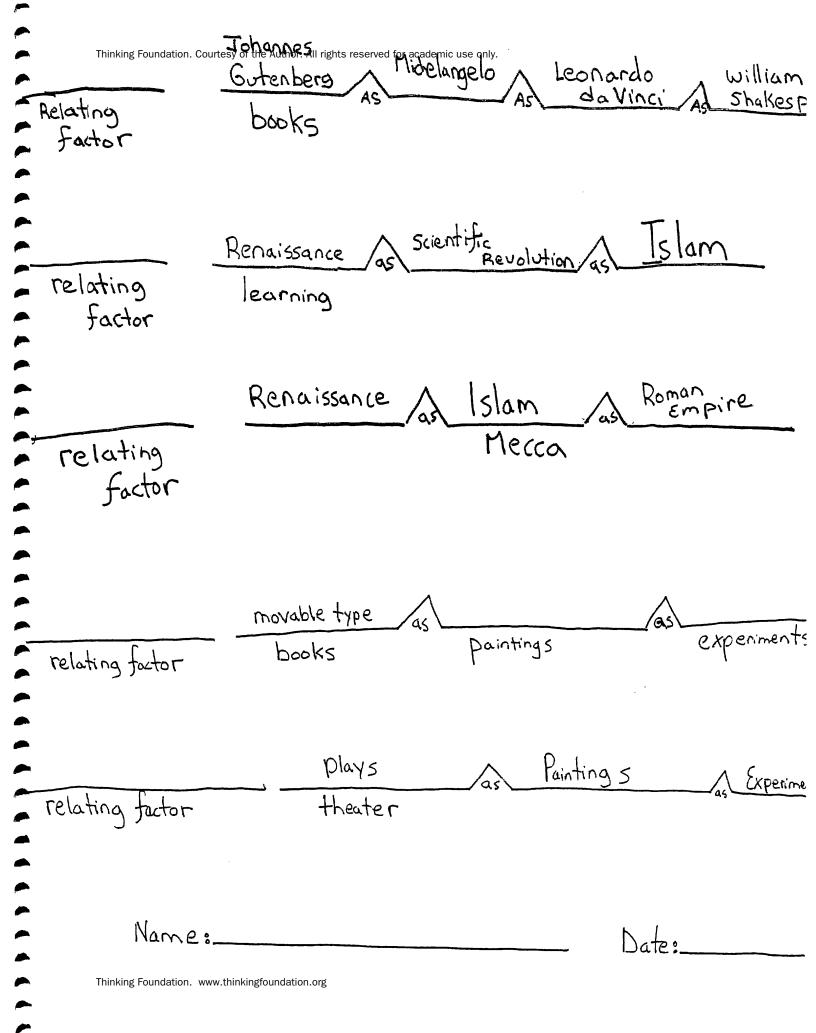
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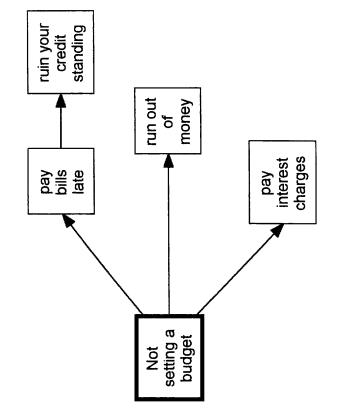


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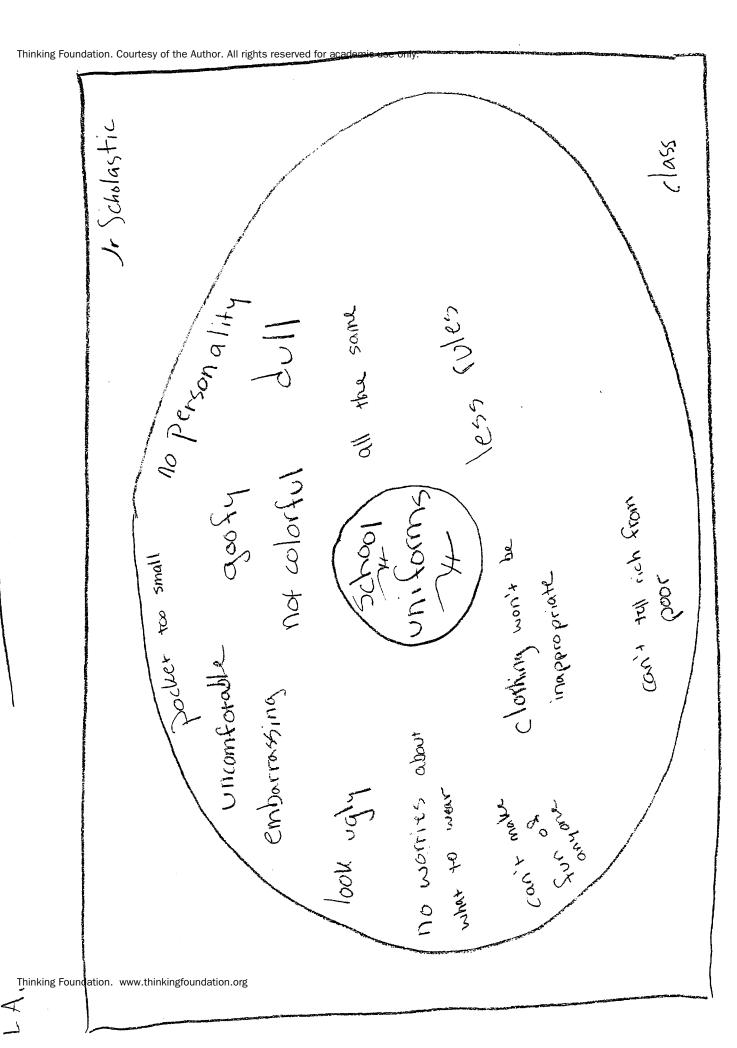


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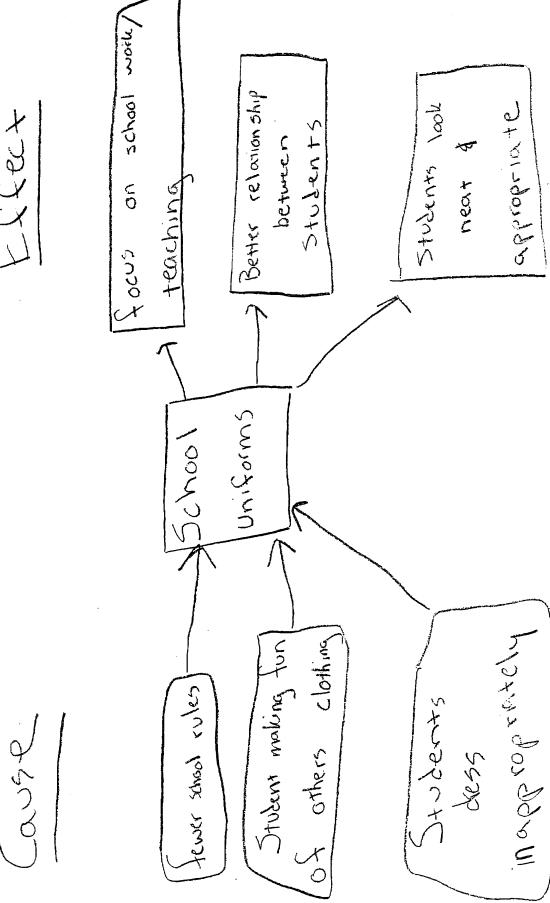




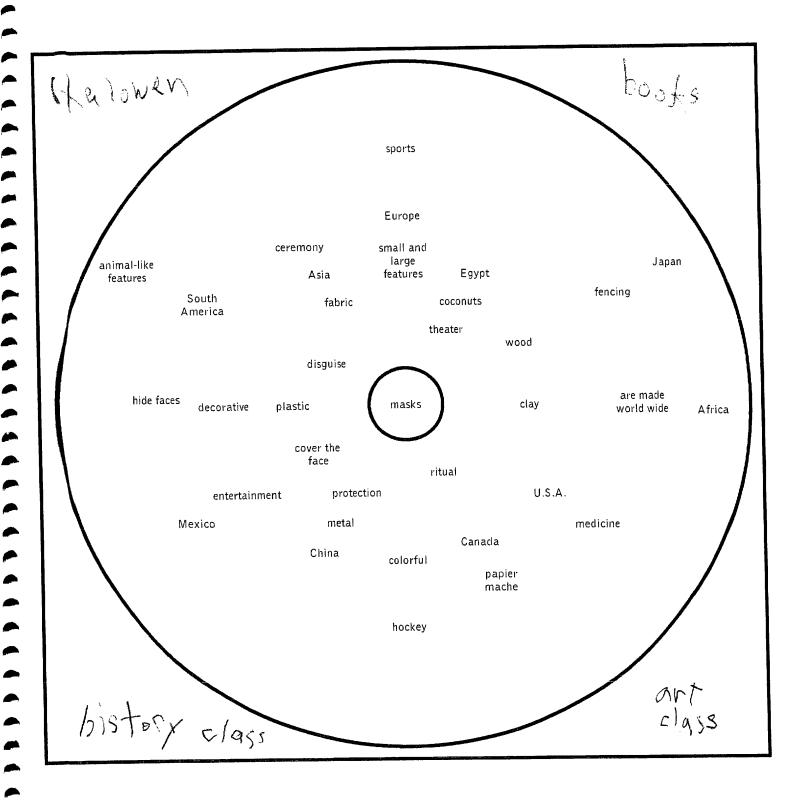


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### Appendix F

The following Thinking Maps observation form is one that the researcher designed to be used as a template when completing staff observations. Both a blank form and samples of completed forms are included.

| 2 | Thinking Foundation. | . Courtesy of the Author. All rights reserved | for academic use only. | THNKNG MAPS | LESSON |
|---|----------------------|-----------------------------------------------|------------------------|-------------|--------|
|   |                      |                                               |                        | TEMPLATE    |        |
|   |                      |                                               |                        |             |        |
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|   |                      |                                               |                        |             |        |
| - |                      |                                               |                        |             |        |

# THINKING MAPS OBSERVATION

Name of Teacher: Date and time of Observation: Observation conducted by: Cynthia Manning Thinking Map selected:

|                                                                                                                       | OBS      | NOBS | COMMENTS |
|-----------------------------------------------------------------------------------------------------------------------|----------|------|----------|
| THE TEACHER                                                                                                           | <u>.</u> |      |          |
| The teacher clearly explained the lesson and its goal.                                                                |          |      |          |
| The teacher was well-prepared.                                                                                        |          |      |          |
| The teacher was fluent with the map.                                                                                  |          |      |          |
| The teacher demonstrated a positive attitude towards the map.                                                         |          |      |          |
| The teacher conveyed information clearly.                                                                             |          |      |          |
| The teacher checked student progress.                                                                                 |          |      |          |
| The teacher praised student work when appropriate.                                                                    |          |      |          |
| The teacher called on every student equally.                                                                          |          |      |          |
| The teacher had control of the class.                                                                                 |          |      |          |
| The teacher guided the class using questions.                                                                         |          |      |          |
| The teacher cued students when necessary (behavior/participation).<br>Thinking Foundation. www.thinkingfoundation.org |          |      |          |

|                                                                                                | OBS | NOBS | COMMENTS |
|------------------------------------------------------------------------------------------------|-----|------|----------|
| The teacher used different colors to complete the map.                                         |     |      |          |
| The teacher used a frame with the map.                                                         |     |      |          |
| THELESSON                                                                                      |     |      |          |
| The objective of the lesson was evident.                                                       |     |      |          |
| The lesson was an effective instructional tool.                                                |     |      |          |
| Students had the opportunity to participate in the lesson.                                     |     |      |          |
| The level of the lesson seemed appropriate for the students.                                   |     |      |          |
| The lesson complemented the curriculum.                                                        |     |      |          |
| THE STUDENTS                                                                                   |     |      |          |
| The students comprehended the lesson content.                                                  |     |      |          |
| The students were fluent with the map.                                                         |     |      |          |
| The students were focused on the map activity.                                                 |     |      |          |
| The students participated in the lesson.                                                       |     |      |          |
| The amount of student writing or copying was appropriate.                                      |     |      |          |
| ТНЕ МАР                                                                                        |     |      |          |
| The map selected was appropriate for the lesson.                                               |     |      |          |
| The map was a creative complement to the lesson.                                               |     |      |          |
| Sample maps were posted around the room in the correct order.                                  |     |      |          |
| The map was written legibly.                                                                   |     |      |          |
| The map was large enough to be seen easily.<br>Thinking Foundation. www.thinkingfoundation.org |     |      |          |

|                                                      | OBS | NOBS | COMMENTS |
|------------------------------------------------------|-----|------|----------|
| The map structure was drawn correctly.               |     |      |          |
| Completion of the map was well-paced.                |     |      |          |
| The map was used for an additional activity.         |     |      |          |
| THE CLASSROOM                                        |     |      |          |
| Student maps were posted in the classroom.           |     |      |          |
| The classroom environment was conducive to learning. |     |      |          |

### COMMENTS:

The following are notes that I typed as reminders to ensure that I incorporate them in the context of my comments. Obviously, other feedback will be included as well.

The map was presented: on the board / on an overhead

Students were / were not required to copy the map from the board

Students were required to draw the map: independently / on a starter map / on a map worksheet / the teacher would distribute a copy of the map the next day

Kind of activity: independent work / group work / teacher-taught lesson / teacher-guided lesson

## THINKING MAPS OBSERVATION

THINKING MAPS LESSON: "Excellent" example

Name of Teacher: Nancy Date and time of Observation: 2/24/03, Period 3 Observation conducted by: Cynthia Manning Thinking Map selected: Circle Map

|                                                                                                                       | OBS | NOBS | COMMENTS                                                                              |
|-----------------------------------------------------------------------------------------------------------------------|-----|------|---------------------------------------------------------------------------------------|
| HE TEACHER                                                                                                            |     |      |                                                                                       |
| The teacher clearly explained the lesson and its goal.                                                                | Х   |      | The teacher explained how a circle map would be used to teach a Wilson phonics lesson |
| The teacher was well-prepared.                                                                                        | х   |      | Pre-organizers and post-<br>organizers were used                                      |
| The teacher was fluent with the map.                                                                                  | x   |      |                                                                                       |
| The teacher demonstrated a positive attitude towards the map.                                                         | х   |      |                                                                                       |
| The teacher conveyed information clearly.                                                                             | х   |      |                                                                                       |
| The teacher checked student progress.                                                                                 | х   |      | The teacher paused frequent<br>to look at each studen's wor<br>and make suggestions   |
| The teacher praised student work when appropriate.                                                                    | x   |      | The teacher responded to correct answers with geat enthusiasm                         |
| The teacher called on every student equally.                                                                          | x   |      | Every student was called up equally and by name                                       |
| The teacher had control of the class.                                                                                 | x   |      |                                                                                       |
| The teacher guided the class using questions.                                                                         | x   |      | "What is the suffix? What is base word? How many syllables? How do I late it?"        |
| The teacher cued students when necessary (behavior/participation).<br>Thinking Foundation. www.thinkingfoundation.org | x   |      | Andre required cueing to<br>focus, but he responded to<br>the teacher's cues          |

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|                                                               | OBS | NOBS | COMMENTS                                                                                     |
|---------------------------------------------------------------|-----|------|----------------------------------------------------------------------------------------------|
| The teacher used different colors to complete the map.        | x   |      | Blue: word<br>Red: suffix<br>Green: labeling                                                 |
| The teacher used a frame with the map.                        | x   |      | The teacher looked for very specific information to complete the frame                       |
| THELESSON                                                     |     |      |                                                                                              |
| The objective of the lesson was evident.                      | x   |      |                                                                                              |
| The lesson was an effective instructional tool.               | x   |      | The inclusion of two word<br>banks was an effective<br>strategy                              |
| Students had the opportunity to participate in the lesson.    | x   |      | Each student was required to participate                                                     |
| The level of the lesson seemed appropriate for the students.  | x   |      | Students were challenged but,<br>with guidance, were able to<br>provide correct responses    |
| The lesson complemented the curriculum.                       | x   |      |                                                                                              |
| THE STUDENTS                                                  |     |      |                                                                                              |
| The students comprehended the lesson content.                 | x   |      |                                                                                              |
| The students were fluent with the map.                        | x   |      |                                                                                              |
| The students were focused on the map activity.                | x   |      |                                                                                              |
| The students participated in the lesson.                      | X   |      |                                                                                              |
| The amount of student writing or copying was appropriate.     | x   |      | Students copied down answer<br>as they covered the lesson in<br>class                        |
| THE MAP                                                       |     |      |                                                                                              |
| The map selected was appropriate for the lesson.              | x   |      | The map was an effective review of previously introduce material                             |
| The map was a creative complement to the lesson.              | x   |      | This lesson was a very creative way to use the circle map !                                  |
| Sample maps were posted around the room in the correct order. | x   |      |                                                                                              |
| The map was written legibly.                                  | X   |      | The teacher's penmanship is<br>neat and well-spaced; it com-<br>plements a phonics lesson we |
| The map was large enough to be seen easily.                   | x   |      |                                                                                              |

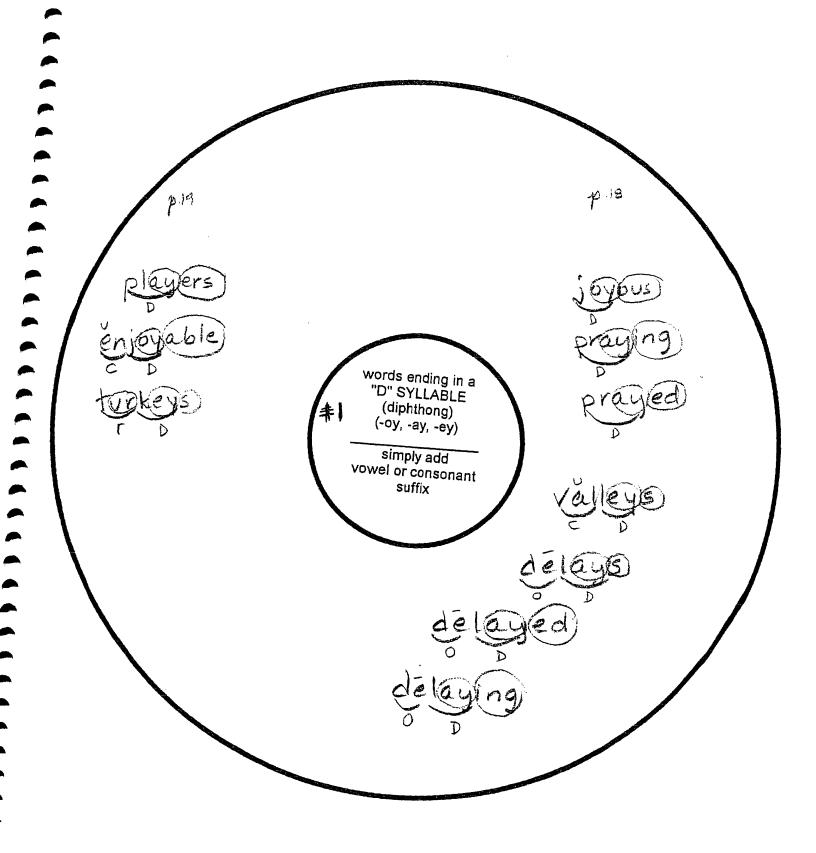
|                                                      | OBS | NOBS | COMMENTS                                                                                             |
|------------------------------------------------------|-----|------|------------------------------------------------------------------------------------------------------|
| The map structure was drawn correctly.               | x   |      |                                                                                                      |
| Completion of the map was well-paced.                | x   |      | Students had the opportunity<br>to work independently and in<br>groups, yet there was no lag<br>time |
| The map was used for an additional activity.         | x   |      | Post-organizers were assigned<br>as homework                                                         |
| THE CLASSROOM                                        |     |      |                                                                                                      |
| Student maps were posted in the classroom.           | x   | -    |                                                                                                      |
| The classroom environment was conducive to learning. | x   |      |                                                                                                      |

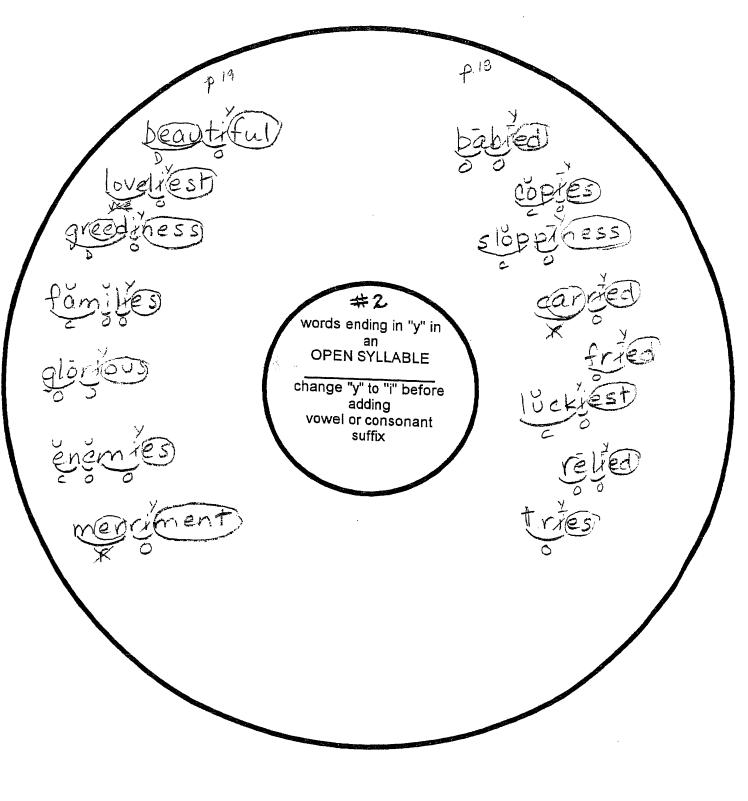
#### COMMENTS:

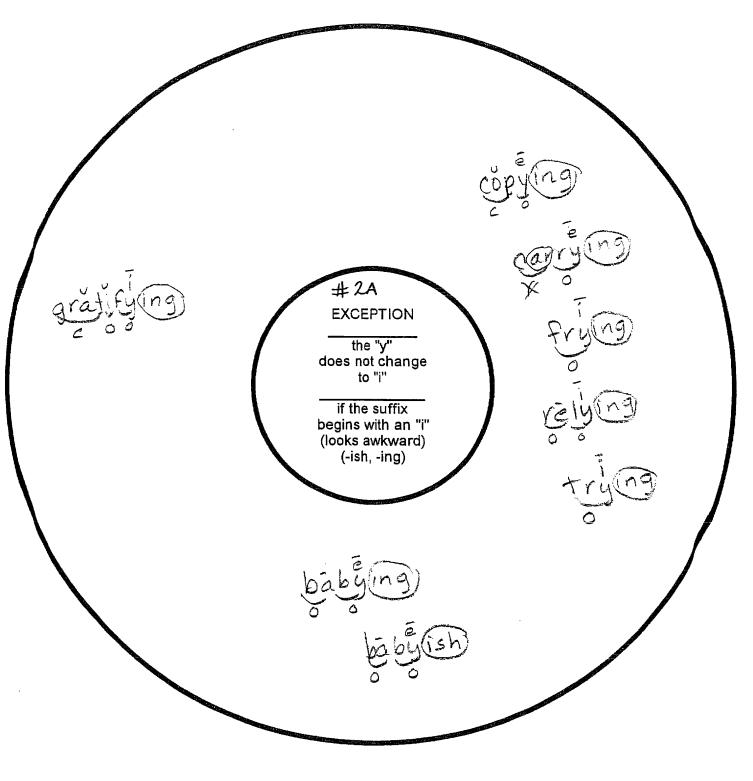
Nancy began class by introducing the objective of the lesson and by issuing clear instructions as to how to complete that day's project. She used a circle map displayed on an overhead projector to review a Wilson rule. Nancy used questioning techniques to elicit student responses; for incorrect answers, she rephrased questions as necessary. The students then worked independently completing a circle map with a different Wilson rule; peer editing was used to check answers.

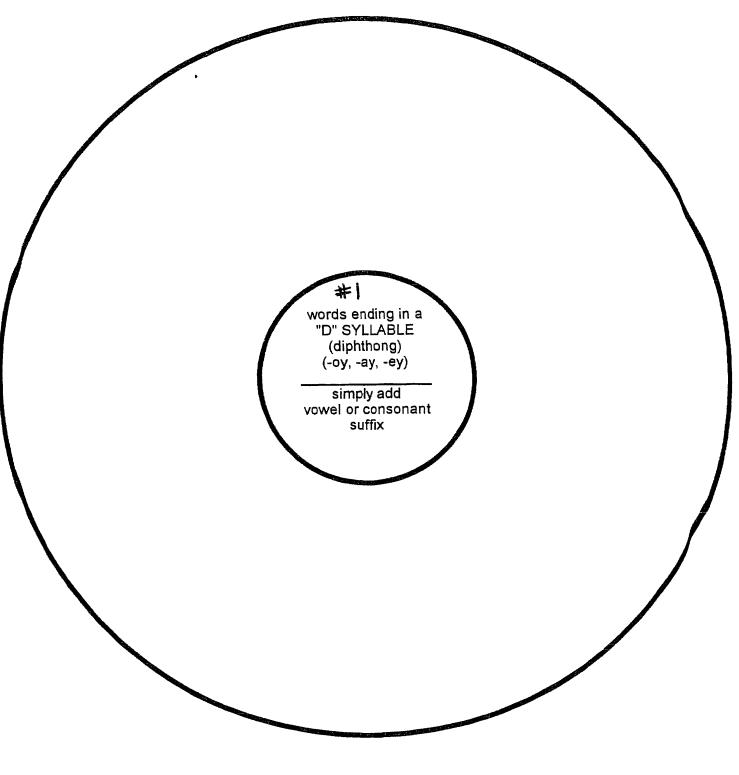
The lesson was presented on the board and on an overhead; student packets, including word banks, were used as well. Students were required to complete the map independently and then check their responses as a group against answers written on the board and on the overhead. The kinds of activities covered in class were a teacher-guided review, independent work, and a group lesson. Using a circle map to review Wilson rules is a creative, effective strategy that students view with enthusiasm and are willing to implement.

) Kevicw look at white board vowel suffix consonant suffix 2) Review "How to add suffixes to words ending in "y" 2/10 packet p.3 3) Distribute Review circle maps and woord lists 4) Ask students to look at p. 18 or p.19 Select a word ending in a "y" Tell me (teacher) the rule #1, #2, #2A Teacher - write word on transparency (blue) Students - write word in Worksheet Ask students how to label that word Teacher labels word on transparency () Suffix (es) (red 2 scoop and label in green 5) Do several as a group min >G) Ask students to locate more on p.18 or p.19 then write these words on correct rule sheet: Thinking Foundation. www.thinkingfoundation.org

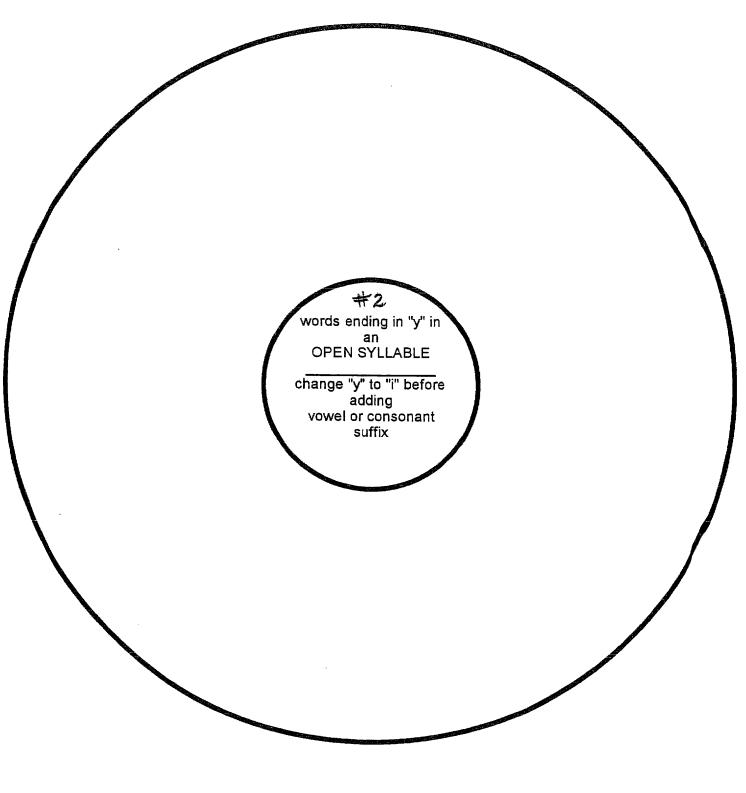






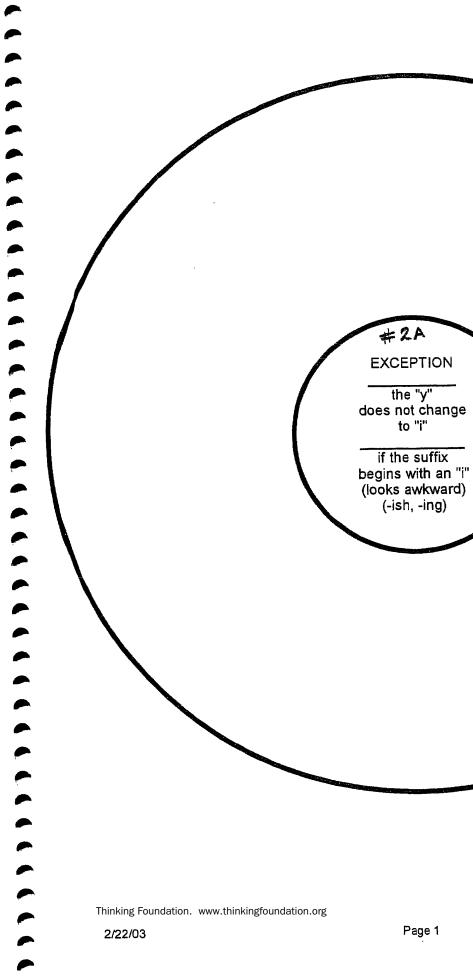


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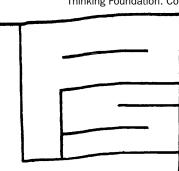
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|   | Wilson 11.2 |
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# Wilson 11.2 Spelling Words Study Sheet

sincerely players friends continued beautiful engaging boring moved **loveliest** turkeys enjoyable enemies greediness merriment families planning glorious gratifying

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# THINKING MAPS LESSON:

"NEEDS IMPROVEMENT"

EXAMPLE

# THINKING MAPS OBSERVATION

Name of Teacher: Jennifer Date and time of Observation: 2/12/03, Period 6 Observation conducted by: Cynthia Manning Thinking Map selected: Double Bubble Map on the North and the South (Civil War)

|                                                                    | OBS | NOBS | COMMENTS                                                                              |
|--------------------------------------------------------------------|-----|------|---------------------------------------------------------------------------------------|
| IE TEACHER                                                         |     |      |                                                                                       |
| The teacher clearly explained the lesson and its goal.             | x   |      | The teacher started the lesson with a review of the Civil War                         |
| The teacher was well-prepared.                                     | x   |      |                                                                                       |
| The teacher was fluent with the map.                               |     | x    | Some aspects of the ma<br>were drawn incorrectly                                      |
| The teacher demonstrated a positive attitude towards the map.      | x   |      |                                                                                       |
| The teacher conveyed information clearly.                          | x   |      |                                                                                       |
| The teacher checked student progress.                              | x   |      |                                                                                       |
| The teacher praised the students when appropriate.                 | x   |      | The teacher used much<br>positive reinforcement<br>after eliciting responses          |
| The teacher called on every student equally.                       | x   |      | The teacher frequently used students' names                                           |
| The teacher had control of the class.                              | x   |      | The class was well-<br>behaved and focus ed<br>on the lesson                          |
| The teacher guided the class using questions.                      | x   |      | The map was completed<br>by the students with the<br>teacher acting as<br>facilitator |
| The teacher cued students when necessary (behavior/participation). | x   |      |                                                                                       |

**(**)

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| The teacher used different colors to complete the map.       |
|--------------------------------------------------------------|
| The teacher used a frame with the map.                       |
| THE LESSON                                                   |
| The objective of the lesson was evident.                     |
| The lesson was an effective instructional tool.              |
| Students had the opportunity to participate in the lesson.   |
| The level of the lesson seemed appropriate for the students. |
| The lesson complemented the curriculum.                      |
| THE STUDENTS                                                 |
| The students comprehended the lesson content.                |
| The students were fluent with the map.                       |
| The students were focused on the map activity.               |
|                                                              |

| The objective of the lesson was evident.                      | X |   |                                                                                |
|---------------------------------------------------------------|---|---|--------------------------------------------------------------------------------|
| The lesson was an effective instructional tool.               | X |   | Students were required<br>to recall and integrate<br>previous material         |
| Students had the opportunity to participate in the lesson.    | x |   | Students did the majority<br>of the work, with the<br>teacher acting as "guide |
| The level of the lesson seemed appropriate for the students.  | x |   | Students seemed sufficiently challenged                                        |
| The lesson complemented the curriculum.                       | x |   | The lesson was an<br>effective summary of<br>previously taught info            |
| IE STUDENTS                                                   |   |   |                                                                                |
| The students comprehended the lesson content.                 | x |   |                                                                                |
| The students were fluent with the map.                        | X |   |                                                                                |
| The students were focused on the map activity.                | X |   |                                                                                |
| The students participated in the lesson.                      | x |   | The students demon-<br>strated a high interest<br>level in the lesson          |
| The amount of student writing or copying was appropriate.     |   | х | The students had to cop<br>the map after conpletio                             |
| HE MAP                                                        |   |   |                                                                                |
| The map selected was appropriate for the lesson.              | x |   |                                                                                |
| The map was a creative complement to the lesson.              | x |   |                                                                                |
| Sample maps were posted around the room in the correct order. | x |   |                                                                                |
| The map was written legibly.                                  | x |   |                                                                                |
| The map was large enough to be seen easily.                   | X |   | The map was dawn on an entire whitebard                                        |

COMMENTS

map

The teacher used three colors to complete the

drawn properly, although

The frame was not

it was used correctly

OBS

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Х

NOBS

|                                                      | OBS | NOBS | COMMENTS                                                              |
|------------------------------------------------------|-----|------|-----------------------------------------------------------------------|
| The map structure was drawn correctly.               |     | Х    | The frame and similarity<br>bubbles were incorrectly<br>drawn         |
| Completion of the map was well-paced.                | Х   |      |                                                                       |
| The map was used for an additional activity.         | х   |      | The map was to be used<br>as a study guide for an<br>upcoming test    |
| THE CLASSROOM                                        |     |      |                                                                       |
| Student maps were posted in the classroom.           |     | x    | Student maps were not<br>posted, although other<br>work was displayed |
| The classroom environment was conducive to learning. | Х   |      |                                                                       |

# **COMMENTS:**

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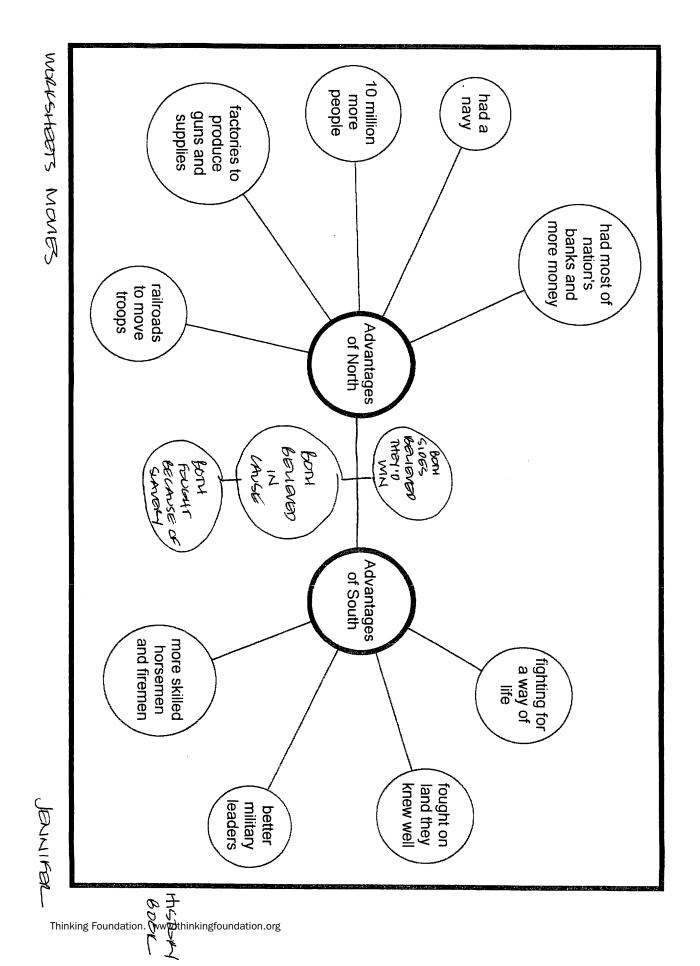
Jennifer chose a double bubble map to present a lesson on the similarities and the differences of the North and the South during the Civil War. She demonstrated competency with the thinking process (comparing and contrasting), but certain aspects, the similarity bubbles and the frame, were drawn incorrectly. The map was presented on the board with the teacher drawing the map. The lesson was teacher-guided; Jennifer used questioning techniques to elicit student input.

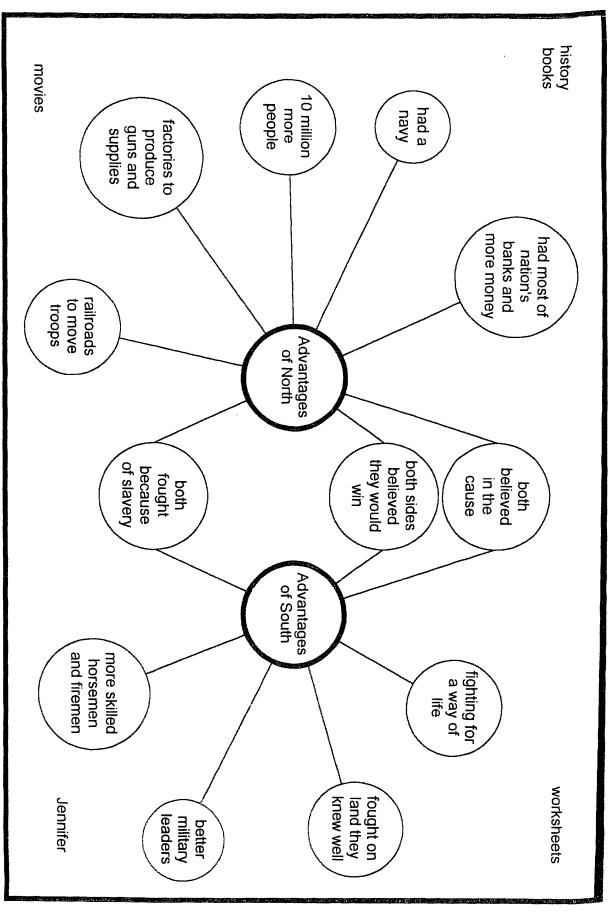
Students were required to copy the map from the board. This did not appear to be instruction of note-taking methods, as the students did not receive any teacher direction as to how to find and write main facts and ideas, but rather they were simply told to copy the map. Jennifer said that she does not have enough space to use an overhead projector, which would eliminate the need for students to copy the map by hand, as the teacher could make copies of the transparency for student use.

Suggestions:

- Write the text first and then draw a circle or box around the text; this prevents the teacher from having to squeeze the text inside a circle or box that is too small to properly contain the information.
- Draw each similarity bubble branching off the two main topics, rather than off a connecting line (see attached graphics).
- Write information inside (not outside) the frame; if necessary, draw the frame larger to accommodate the information as needed.
- Students were required at the end of the discussion to copy the map from the board; a
  more efficient use of class time would be to write down the map for the students (or
  copy a transparency if used) and distribute copies the next day.

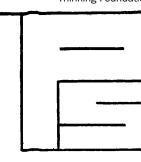
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# "UNSATIS FACTORY " EXAMPLE

# **THINKING MAPS OBSERVATION**

#### Name of Teacher: Dana Date and time of Observation: 2/6/03, Period 7 Observation conducted by: Cynthia Manning Thinking Map selected: Bubble and Flow Maps

|                                                                                                                       | OBS | NOBS | COMMENTS                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------|-----|------|---------------------------------------------------------------------------------------------|
| THE TEACHER                                                                                                           |     |      |                                                                                             |
| The teacher clearly explained the lesson and its goal.                                                                |     | x    | A major aspect of the lesson<br>(bubble map) was notinitially<br>explained or introduced    |
| The teacher was well-prepared.                                                                                        |     | x    | The teacher didn't know how to<br>spell a town name and didn't<br>know where it was located |
| The teacher was fluent with the map.                                                                                  |     | x    | The maps were used correctly<br>but one—the flow map—was<br>drawn incorrectly               |
| The teacher demonstrated a positive attitude towards the map.                                                         | x   |      |                                                                                             |
| The teacher conveyed information clearly.                                                                             |     | x    | The teacher's initial board<br>notes (see end comments)<br>were difficult to follow         |
| The teacher checked student progress.                                                                                 | x   |      |                                                                                             |
| The teacher praised student work when appropriate.                                                                    | x   |      |                                                                                             |
| The teacher called on every student equally.                                                                          |     | X    | The teacher often caled on<br>Jamin & Steveanne but n ot on<br>Mark, Suzanne, or James      |
| The teacher had control of the class.                                                                                 | x   |      |                                                                                             |
| The teacher guided the class using questions.                                                                         | x   |      |                                                                                             |
| The teacher cued students when necessary (behavior/participation).<br>Thinking Foundation. www.thinkingfoundation.org | x   |      |                                                                                             |

|                                                                                                | OBS | NOBS   | COMMENTS                                                                                                          |
|------------------------------------------------------------------------------------------------|-----|--------|-------------------------------------------------------------------------------------------------------------------|
| The teacher used different colors to complete the map.                                         |     | x      | Using different colors is not<br>necessary but it does assist<br>visual learners                                  |
| The teacher used a frame with the map.                                                         |     | x      | Using a frame is not necessa<br>but it does assist with higher<br>level thinking skills                           |
| THE LESSON                                                                                     |     |        |                                                                                                                   |
| The objective of the lesson was evident.                                                       |     | x      | The teacher said she was<br>going to do a flow map but 1<br>launched into a bubble map<br>first with no segue way |
| The lesson was an effective instructional tool.                                                | x   |        | The lesson was teacher-<br>guided, utilizing questioning<br>techniques                                            |
| Students had the opportunity to participate in the lesson.                                     | x   |        |                                                                                                                   |
| The level of the lesson seemed appropriate for the students.                                   | x   |        |                                                                                                                   |
| The lesson complemented the curriculum.                                                        | x   |        |                                                                                                                   |
| THE STUDENTS                                                                                   |     |        |                                                                                                                   |
| The students comprehended the lesson content.                                                  | x   |        |                                                                                                                   |
| The students were fluent with the map.                                                         | x   |        |                                                                                                                   |
| The students were focused on the map activity.                                                 |     | X<br>1 | Only some of the students<br>were focused on the lessol<br>few had their heads down                               |
| The students participated in the lesson.                                                       |     | X      | Some students participated<br>others were struggling to s<br>awake (it was 7 <sup>th</sup> period)                |
| The amount of student writing or copying was appropriate.                                      |     | x      | The teacher was going to<br>have the students copy do<br>the map but the bell rang                                |
| THE MAP                                                                                        |     |        |                                                                                                                   |
| The map selected was appropriate for the lesson.                                               | x   |        |                                                                                                                   |
| The map was a creative complement to the lesson.                                               | x   |        |                                                                                                                   |
| Sample maps were posted around the room in the correct order.                                  | ×   |        |                                                                                                                   |
| The map was written legibly.                                                                   | x   |        | The map was written or the board by the teacher                                                                   |
| The map was large enough to be seen easily.<br>Thinking Foundation. www.thinkingfoundation.org | x   |        |                                                                                                                   |

|                                                      | OBS | NOBS | COMMENTS                                                                                                                                                                                                                                  |
|------------------------------------------------------|-----|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The map structure was drawn correctly.               |     | x    | The Flow Map did not have a<br>connecting line between rows<br>or on sub-detail boxes                                                                                                                                                     |
| Completion of the map was well-paced.                | x   |      |                                                                                                                                                                                                                                           |
| The map was used for an additional activity.         |     | X    | The class ran out of time<br>before the map could be<br>finished; it would make an<br>effective study guide for a quiz                                                                                                                    |
| THE CLASSROOM                                        |     |      |                                                                                                                                                                                                                                           |
| Student maps were posted in the classroom.           | x   |      | The teacher's Flow Map<br>bulletin board was incorrect; it<br>did not have a connecting line<br>between rows or on sub-detail<br>boxes. Sub-detail boxes do not<br>need to be in sequential pairs<br>and should be used only as<br>needed |
| The classroom environment was conducive to learning. | x   |      |                                                                                                                                                                                                                                           |

## COMMENTS:

Dana's lesson centered on chapters 4 and 5 in <u>Where the Red Fern Grows</u>. She began class by asking questions such as:

- What characters do we encounter in chapter 4?
- What happens in Chapter 5?
- Where is he going?
- Is it a big town?
- What is the size of the town?
- What is the setting?

She wrote some of the answers to these on the board as points (see below). Her board notes did not seem to follow any pattern:

```
Marshall
meets the dogs
Setting
In the mountains – on the way to get the dogs
and on the way back
Tahleguah
```

(This would have been an effective tree map, with <u>Where the Red Fern Grows</u> as the topic and chapters 4 and 5 as sub-topics.) She then prompted the students that "you all should be writing this down." The students also were prompted during the lesson to pull out their books if they had not down <u>write sonvet</u>. Dana <u>quietly mentioned</u> to Jamin that she would write down the material from

the board for him. During this time, Dana seemed to not be adequately prepared to present aspects of the lesson, as she did not know where Tahlequah was and had to search the book with the students to find the correct spelling of the town's name as well as in which state it was located.

After reviewing the reading, she erased the board and asked the students to "wait to write down the Flow Map until I am done." She then commenced to draw a Bubble Map on the board with "Billy" as the topic. Dana had explained the Flow Map but not the Bubble; it appeared that she had called the map by the wrong name. She again used a series of questions to elicit answers from her students:

- What adjectives could you use to describe Billy?
- Why is he weird?

- Would you say he is weird, or inexperienced?
- Why would you say he is independent?
- Why is he impatient? Could he wait to get the dogs?
- Is he smart because he was taught by his mom?
- Is he adventurous because he went to Kentucky and back?

If the students were non-responsive, she would provide them with an adjective (e.g., Is Billy impatient?") and ask them to give an example of this (e.g., "Why is Billy impatient?").

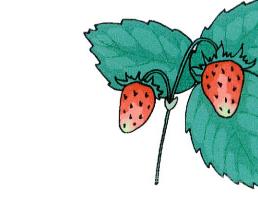
Steveanne asked during this part of the lesson, "Do you want our homework?" Dana replied that she would check it at the end of class (the class ran out of time before she had a chance to check homework; the students also did not have time to copy down the map).

During the lesson, some students were non-participatory: For much of the lesson, Bianca had her head down; Mark stared at his desk or around the room; and James stared down at his arm and played with his sweatshirt or his wrist. She did make a few pleas for Bianca to please keep her head up, and asked twice while snapping her fingers, "James? Sarah? Are you with me?" Sarah answered, "Sort of," and James never responded. She did comment to the students, "I know it is 7<sup>th</sup> period and you guys are tired but you need to stay with me."

After completing the bubble map describing the main character (Billy), Dana began a Flow Map for sequencing events in chapters 4 and 5. Dana completed the map used guided questions to elicit student input, which was then inserted into the Flow Map in proper sequential order. During this part of the lesson, Dana mostly called on Suzanne, Mark, and Ryan to answer questions. She asked Ryan twice, "Ryan, are you with me? Are you okay?" and snapped her fingers at him to get his attention.

The Flow Map structure was drawn incorrectly; there was not a connecting line between the bottom and top rows, and lines were not used to connect the sub-detail boxes to the main event boxes.

Dana displayed several completed Thinking Map activities around the room. Her maps were posted correctly, although her Flow Map bulletin board was drawn incorrectly (same issues as above). It was obvious that most students were comfortable with using the maps during the lesson. Bianca and Steveanne mentioned that they always copy the maps down at the end of class. It was suggested to Dana that the map contained too much material for students to copy; it would be the for the for the former for the former for the maps down for them and distribute copies the next day.



# Strawberry Girl

by Lois Lenski

# **Reading Level**

5<sup>th</sup> Grade

# Learning Standards

#### Reading Strand: Students will...

- 4: Acquire and use correctly advanced reading vocabulary of English words, identifying meanings through an understanding of word relationships.
- 5: Identify, describe, and apply knowledge of the structure of the English language and standard English conventions for sentence structure, usage, punctuation, capitalization, and spelling.
- 6: Describe and analyze how oral dialects differ from each other in English, how they differ from written standard English, and what role standard American English plays in informal and formal communication.
- 7: Describe and analyze how the English language has developed and been influenced by other languages.

## Literature Strand: Students will...

- 8: Decode accurately and understand new words encountered in their reading materials, drawing on a variety of strategies as needed, and then use these words accurately in speaking and writing.
- 9: Identify the basic facts and essential ideas in what they have read, heard, or viewed.
- 15: Identify and analyze how an author's choice of words appeals to the senses, creates imagery, suggests mood, and sets tone.
- 17: Interpret the meaning of literary works, non-fiction, films, and media by using different critical lenses, and analytic techniques.

## Composition Strand: Students will...

- 19: Write compositions with a clear focus, logically related ideas to develop it, and adequate supporting detail.
- 22: Use their knowledge of standard English conventions for sentence structure, usage, punctuation, capitalization, and spelling to edit their writing.
- 24: Use open-ended research questions, different sources of information, and appropriate research methods to gather information for their research projects.

Media Strand: Students will...

• 26: Obtain information by using a variety of media and evaluate the quality of the information obtained.



| Name:    | Date:   |
|----------|---------|
| Subject: | Period: |

# Strawberry Girl by Lois Lenski

**Directions:** Answer the questions below in complete sentences.

## Forward

- 1. Describe Crackers using the "w" words:
  - Who are Crackers?
  - Where are they from?
  - How do they live?
  - What makes them different?
  - Where did they settle?
  - Why do we study them?

## Prologue

## Write definitions for these vocabulary words: drawl, grove

- 1. How did the Slaters mark their cows?
- 2. Why was Essie trying to alert Pa Slater about the cow?
- 3. Who were the Slaters' new neighbors?
- 4. Do you think the Slaters were rich or poor, and why?

# Chapter 1 – Callers

## Write definitions for these vocabulary words: akimbo, peep, trifle, snarls (n)

- 1. Do the Boyers seem rich or poor, and why?
- 2. What do you think "callers" are?
- 3. Is this a simile or a metaphor: "She was carrying her baby like a sack of potatoes on her hip"?
- 4. Why did Ma Slater tell Ma Boyer not to bother growing oranges?
- 5. How did the Boyers plan on earning money?
- 6. How did the Slaters earn money?
- 7. How did the Boyers treat their cows differently from the Slaters? Why is this important?

- 8. According to Mrs. Slater, why wouldn't her daughters talk?
- 9. What were the nicknames for the following characters:
  - Robert Boyer
  - Bihu Boyer, Jr.
  - Dixie Lee Francine Boyer
  - Dovey Eudora Boyer
  - Berthenia Lou Boyer
  - Jefferson Davis Slater
- 10. What did Birdie call snarls in Shoestring's hair?
- 11. What new items hadn't the Slaters seen before?
- 12. Why did the Slaters leave the Boyers' home so quickly?
- 13. Why did the Slaters say they had come to visit the Boyers?

#### Chapter 2 – Fences

Write definitions for these vocabulary words: vigorous, furrow, rile

- 1. Why did the Boyers pen the cows up every night?
- 2. What did the Slaters do with their cows?
- 3. Over what did Shoestring and Birdie argue?
- 4. Where did strawberries first grow in Florida?
- 5. What did Shoestring claim to be?
- 6. What happened when Shoestring tried to ride Semina, the mule?
- 7. Is this a cliché or simile: "Don't count your biddies (chickens) before they're hatched"?
- 8. What gift did Shoestring bring for Birdie after their argument?
- 9. What two things killed Birdie's plants?
- 10. What damage did the Slaters' cows do?
- 11. What did the Boyers build to keep out the Slaters' animals?
- 12. According to Shoestring, what was going to happen if Pa Slater built a fence?
- 13. What bad habit did Pa Slater have?

## Chapter 3 – School

#### Write a definition for this vocabulary word: shrill

- 1. In what did school children pack their lunches?
- 2. What did the girl at school call the Boyer children?
- 3. Why do you think Olema and the other children didn't want anything to do with the Slaters?
- 4. What did the water taste like?
- 5. Why did Billie Sue think Dovey was stuck up?
- 6. Of what was most girls' dresses made?
- 7. Who burst into the school in the middle of the day?
- 8. Did Pa Slater support his sons attending school?
- 9. What happened when Mr. Pearce tried to discipline Gus and Joe?
- 10. Why was school cancelled for a very long time?

#### Write definitions for these vocabulary words: grits, commotion, coward

- 1. To what trouble did Birdie awaken in the middle of the night?
- 2. What do you think Pa Boyer did to the hog?
- 3. What kind of food did the Crackers eat?
- 4. Why was Birdie afraid for Pa Slater to meet with her dad?
- 5. How did Pa Boyer want to settle their problem?
- 6. How did Pa Slater want to settle their problem?
- 7. Is this a cliché or a simile: "My razorbacks (hogs) can run like a streak o' lightening"?
- 8. Why was Birdie angry with Shoestring?
- 9. How did the Slaters threaten the Boyers?
- 10. What animal did Shoestring bring to show Birdie?
- 11. Why did Shoestring really come to the Boyers' house?
- 12. What did Pa Boyer do to the Slaters' hogs?
- 13. Why did Pa Boyer call Pa Slater a coward?
- 14. Why did Birdie suddenly become friendly with Shoestring?
- 15. What did Birdie suggest Shoestring do to try to keep the Slaters' hogs at home?

# Chapter 5 – Overalls

Write definitions for these vocabulary words: millinery, yearning, forlorn, paraffin, steer (n)

- 1. Why did the Boyers go to town?
- 2. Why did Birdie have to get a new summer hat?
- 3. Why did the town seem so far away?
- 4. What did Miss Liddy believe about every woman?
- 5. What kind of person was Miss Liddy, as shown by her conversation with Ma Slater?
- 6. What did Birdie help Avuloy make?
- 7. What luxury item did the Boyers purchase?
- 8. What new fencing material did Pa Boyer buy?
- 9. Who did Birdie see in town?
- 10. From where did the Slaters hope to get money?
- 11. How do you think Pa Slater was going to celebrate after taking the steer to the butcher?
- 12. Why did the painter call himself the "Lightning Artist"?
- 13. How did Pa Slater actually celebrate with the butcher's money?
- 14. Why did Shoestring lie to Miss Liddy about his family's new purchases?

# Chapter 6 – The Storm

Write definitions for these vocabulary words: gourd, quench, cross (adj.), pester, oppressive, balk, scurry

- 1. Why couldn't Dovey and Birdie drink much water when they worked in the fields?
- 2. What was Central Florida's weather like in September?
- 3. What ate Birdie's amaryllis lilies?
- 4. Why was Bunny crying?

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- 5. What two services did Doc Dayton perform for the Boyers?
- 6. How were visiting strangers treated in the 1940s?
- 7. How would your family treat strangers today?
- 8. What changes happened during the storm?
- 9. Is this a cliché or a metaphor: "The rain came like sharp pebbles"?
- 10. What damage did the storm do?

# Chapter 7 – Cane Grinding

## Write definitions for these vocabulary words: fodder, tallow, frolic, ferment, indignant, glum

- 1. Why did Pa Boyer tell the neighbors he was grinding cane?
- 2. What was attracted to the sweet cane juice?
- 3. What did Shoestring say cane juice looked like?
- 4. What was the unwritten law of the backwoods?
- 5. What items were made from cane juice?
- 6. What stopped the cane grinding?
- 7. What took place during a frolic?
- 8. Why was Shoestring glum at the candy-pull?
- 9. What do you think Pa Slater was going to do to the Boyers?

# <u> Chapter 8 – Cattle</u>

Write definitions for these vocabulary words: ruckus, commotion, teamster, rickety, battered, runt

- 1. Why did Pa Slater cut the Boyers' barbed wire fence?
- 2. Is this a cliché or a metaphor: "It is better to let sleeping hogs (or dogs) lie"?
- 3. For what did Pa Boyer want to go to town?
- 4. Why did Birdie go see Miss Liddy?
- 5. What were the two big commotions in town?
- 6. According to Miss Liddy, what are Crackers?
- 7. What is a "strawberry girl"?
- 8. Over what did Pa Slater and Pa Boyer fight?
- 9. According to Pa Boyer, what is a "squatter"?
- 10. Miss Liddy said that Florida would not be a peaceful place to live until what happened?
- 11. What happened to Pa Slater and Pa Boyer after the fight?
- 12. What did Pa Boyer threaten to do if he saw any of Pa Slaters' cattle or hogs on his land?
- 13. Who else fought besides Pa Slater and Pa Boyer?
- 14. What happened to Buzz and Gus?
- 15. What do you think Ma Boyer would do to keep Pa Slater off her property?
- 16. Why was Ma Boyer's strategy successful?

#### Write definitions for these vocabulary words: penalty, thicket, hunched (adj.)

- 1. Why did the Slaters and the Boyers stop fighting?
- 2. What did the Slaters and the Boyers do together in the winter?
- 3. Why were the Boyers able to get milk and butter?
- 4. Why was the winter peaceful for the Boyers?
- 5. Why were some schools in Florida called "Strawberry Schools"?
- 6. What was the penalty for being the fastest berry picker?
- 7. What animal did Shoestring have in his bag?
- 8. Why did Birdie risk a rattlesnake bite?
- 9. How did the Boyers protect strawberry plants from freezing?
- 10. What happened to Shoestring's snake?

## Chapter 10 – Alligator

#### Write definitions for these vocabulary words: waddle, depot, bog

- 1. What was the new method used for shipping strawberries?
- 2. Why did Pa Boyer and Birdie rush to get to the train?
- 3. Why did Osceola, their horse, stop suddenly in the road?
- 4. To where were strawberries being shipped?
- 5. How long did it take the Yankees to get strawberries using the Pony Refrigerator for shipping?
- 6. What was the suggestion the stranger offered?
- 7. Why couldn't Pa Boyer use pints for packing strawberries?
- 8. How was the Pony Refrigerator returned to the Boyers?
- 9. Why were buzzards circling above the trees?
- 10. How did Pa Boyer rescue the cow?
- 11. How did Mrs. Slater react when Pa Boyer brought the cow to her?
- 12. How did Shoestring claim he caught a fish?
- 13. How did Pa Boyer punish Shoestring?
- 14. What are the two reasons why Ma Slater bought a Bible?
- 15. What do you think would happen if Pa Boyer whipped Shoestring in 2003, instead of 1945?

# Chapter 11 – Spotted Calf

#### Write definitions for these vocabulary words: heifer, meddle

- 1. Why did trouble between the Slaters and the Boyers begin again in the spring?
- 2. What was Pa Boyer's brand, and what did it stand for?
- 3. What did Pa Slater steal from the Boyers?
- 4. Why couldn't Pa Boyer change the brand on the spotted calf?
- 5. What did Pa Boyer do when he found Pa Slater's hogs in his yard?
- 6. How did Pa Slater respond to his hogs being killed?
- 7. Why did the townspeople call Birdie a "strawberry girl"?
- 8. What did Pa Slater do to Semina? Thinking Foundation. www.thinkingfoundation.org

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Straw Birking Foundation i Courtesy of the Author. All rights reserved for academic use only. 9. Why did Pa Boyer call Pa Slater a skunk? 10. What other animal could Pa Boyer have called Pa Slater?

# Chapter 12 – Grass Fire

Write definitions for these vocabulary words: charred, billow, calamity

- 1. Why did Shoestring claim that Birdie and her family were better than other people?
- 2. Where did Ma Boyer wash clothes?
- 3. When Birdie went to get help from the Slaters, how did they respond?
- 4. Who was the only member of the Slater family who offered to help the Boyers put out the fire?
- 5. Who was trapped in the palmettos during the fire?
- 6. What building did the fire destroy?
- 7. Who would have been the new teacher?

# Chapter 13 – Brown Mule

Write definitions for these vocabulary words: swap, dicker, harangue, doubloon, bid (v), sober

- 1. What job did Pa Boyer prefer over being a cattleman?
- 2. What did Pa Boyer bring to trade for a mule?
- 3. How did the Boyers plan to keep their mule safe from the Slaters?
- 4. Why did Essie and Zephy come to see the Boyers?
- 5. Why did Ma Slater have a chicken dinner for all the neighbors?
- 6. Where was Mr. Slater, and why did he leave?
- 7. What is "chicken pilau"?
- 8. Why would Ma Boyer have buried the chickens instead of having a frolic, like Ma Slater?
- 9. What effects did Mr. Slater's drinking have on his family?
- 10. What changed between Ma Slater and Ma Boyer?

# Chapter 14 – The Preacher

*Write definitions for these vocabulary words: fretful, flickering, pallet, nourishing, puny, meager, doff, wail (v)* 

- 1. Why did Shoestring come to the Boyers' house in the middle of the night?
- 2. Did Ma Slater and her children recover from their illness?
- 3. What did Shoestring do while the Boyers were taking care of the Slaters?
- 4. Who came to visit the Slaters' house?
- 5. Do you think it was fair that the hungry children were not allowed to share supper with the preacher? Why or why not?
- 6. Why did Shoestring climb the kitchen wall?
- 7. Why did Essie and Zephy cry?
- 8. Why did Shoestring return home, even though he expected a whipping? Thinking Foundation. www.thinkingfoundation.org

- 9. What two things did Shoestring tell Mrs. Boyer?
- 10. How did Pa Slater first react when he saw Ma Boyer in his house?
- 11. Why did Pa Slater change his attitude toward Ma Boyer?

## Chapter 15 – New Organ

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Write definitions for these vocabulary words: converted (v), begrudge, squabble

- 1. Why did Pa Slater change and become a better man?
- 2. Who helped convert Pa Slater?
- 3. What two things did Pa Slater hope to become?
- 4. How was land in Florida changing?
- 5. What company moved near the Slaters and the Boyers?
- 6. What is phosphate used for?
- 7. How is phosphate removed from the earth?
- 8. What were two ways Pa Slater was affected by the phosphate company?
- 9. What was Pa Slater finally going to let Shoestring do?
- 10. What was Ma Slater planning on growing, since Pa Slater had a job at the phosphate company?
- 11. Why was Miss Annie Laurie Dunnaway frightened on the first day of school?
- 12. What surprise awaited Birdie when she returned home from school?
- 13. Why did Pa and Ma Boyer purchase the organ for Birdie?
- 14. What did Birdie hope to do someday?

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Directions: The following sentences are written in "Florida Cracker" dialect. Rewrite the sentences to be grammatically correct.

| Page # | Quote from Strawberry Girl                                  | <b>Re-written sentence</b> |
|--------|-------------------------------------------------------------|----------------------------|
| o. 19  | She don't like cowmen.                                      |                            |
| o. 29  | We don't want no Yankees in our school.                     |                            |
| o. 59  | What you doin'?                                             |                            |
| o. 84  | You can't do nothing with her.                              |                            |
| o. 96  | You got no right to fence it up!                            |                            |
| o. 138 | Can't nobody go changin' brands<br>without landin' in jail. |                            |
| p. 139 | What you-all doin' here?                                    |                            |
| o. 171 | Is Mis' Slater fixin' to die, Ma?                           |                            |
| o. 173 | You're so easy to neighbor with.                            |                            |
| o. 190 | He ain't rough and wild.                                    |                            |



| Name:    | Date: _ |  |
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| Subject: | Period: |  |

#### Strawberry Girl by Lois Lenski

**Directions:** 

Three opinions are written below. Find proof in the book to support these opinions; hints are given as to where to look. Write your answers in the space provided.

| <u>Opinion</u>                                                                                                                                                                   | Proof |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 1. "Guess we know now how<br>biggety you folks is," said Mrs.<br>Slater (to Mrs. Boyer).<br>(Look in Chapter 1 for proof of<br>fancy household items that the<br>Boyers own.)    |       |
| 2. "Pa's mean, and when he's drunk,<br>you can never tell what he'll do,"<br>Shoestring said.<br>(Look in Chapter 5 for proof of Pa<br>Slater being mean when he gets<br>drunk.) |       |
| 3. "My Pa will make trouble for<br>[your Pa]" Shoestring told Birdie.<br>(Look in Chapter 12 for proof of<br>Pa Slater making trouble for the<br>Boyers.)                        |       |

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 Name:
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## Strawberry Girl by Lois Lenski

Directions:

How many words can you make from the letters in "teamster," "indignant," and "converted"? Try to think of at least 5 words. Write your answers in the space provided.

| Vocabulary Word | You Make the Words |
|-----------------|--------------------|
| teamster        |                    |
| indignant       |                    |
| converted       |                    |

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|                                                                                         | Strawber<br>Decide if the state | Date:<br>Period:<br>ry Girl by Lois Lenski<br>Directions:<br>ments below are fact or opinion.<br>nswer in the line provided. |
|-----------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------|
|                                                                                         |                                 | Fact or Opinion?                                                                                                             |
| 1. The old Roddenberry house<br>1880's, the earliest type of FI                         |                                 |                                                                                                                              |
| 2. Birdie said to Essie, "See how                                                       | v purty you look!" (p.11)       |                                                                                                                              |
| 3. Frequent rains gave [the strav<br>and the plants began to gree<br>new leaves. (p.21) |                                 |                                                                                                                              |
| 4. "We come from Marion Count<br>said Birdie patiently. <i>(p.29)</i>                   | ty, Florida—that's up north     | ٦,"                                                                                                                          |
| 5. As Birdie tried to go back to s<br>grew fainter and fainter. (p. 4                   |                                 | als                                                                                                                          |
| 6. "My razorbacks can run like a retorted Slater ( <i>p. 45</i> )                       | streak o' lightning!"           |                                                                                                                              |
| 7. Shoestring said, "Pa's hog m<br>ear." <i>(p. 50)</i>                                 | ark is a round hole in the      |                                                                                                                              |
| 8. Birdie said, "Your Pa's a cow                                                        | ard." <i>(p. 51)</i>            |                                                                                                                              |
| 9. "[Mules'] teeth git very sharp<br>year by a mule dentist," said                      |                                 | a                                                                                                                            |
| 10. Birdie was glad that the snal                                                       | ke was dead. <i>(p. 117)</i>    |                                                                                                                              |



# Name: Date: Subject: Period:

# Strawberry Girl by Lois Lenski

**Directions:** Answer the questions below.

Things you found out:

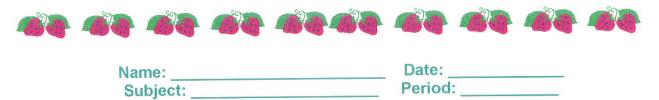
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Interesting things you discovered:

Question you still have:

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#### Strawberry Girl by Lois Lenski

Directions:

How many words can you think of that rhyme with "rile," "shrill," "bid," and "steer"? Try to think of at least 5 words. Write your answers in the space provided.

| Vocabulary Word                                                 | Rhyming Words |
|-----------------------------------------------------------------|---------------|
| rile                                                            |               |
| shrill                                                          |               |
| bid                                                             |               |
| steer                                                           |               |
| <b>Steer</b><br>Thinking Foundation. www.thinkingfoundation.org |               |

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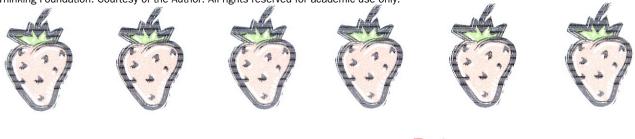
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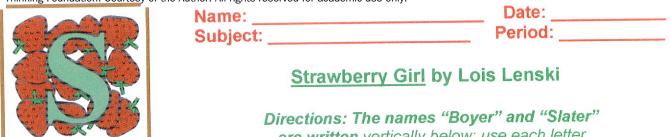
# Strawberry Girl by Lois Lenski

# Directions: Write a synonym and antonym for each vocabulary word.

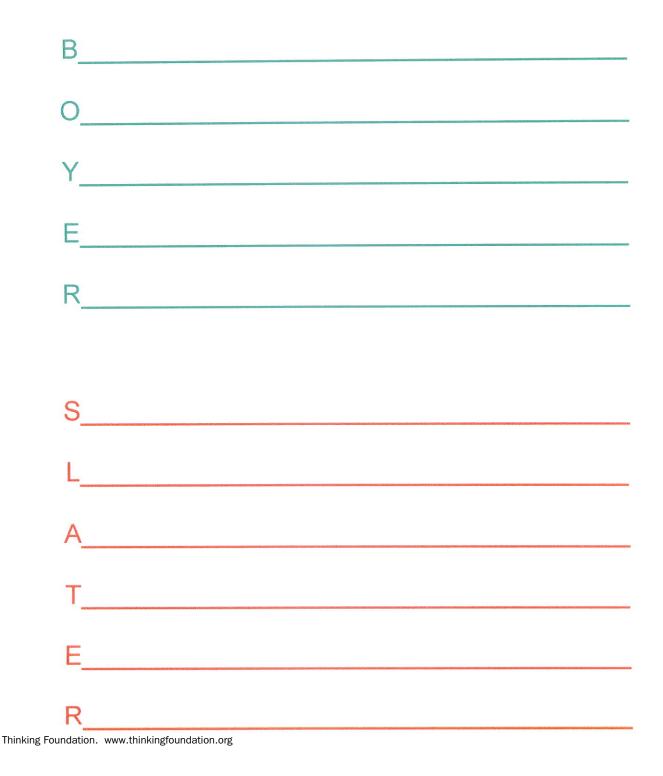
| Vocabulary Word                             | Synonym | Antonym |
|---------------------------------------------|---------|---------|
| vigorous                                    |         |         |
| shrill                                      |         |         |
| commotion                                   |         |         |
| coward                                      |         |         |
| forlorn                                     |         |         |
| pester                                      |         |         |
| scurry                                      |         |         |
| frolic                                      |         |         |
| glum                                        |         |         |
| rickety                                     |         |         |
| waddle                                      |         |         |
| calamity                                    |         |         |
| puny                                        |         |         |
| meager                                      |         |         |
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are written vertically below; use each letter to start a word that describes each family.



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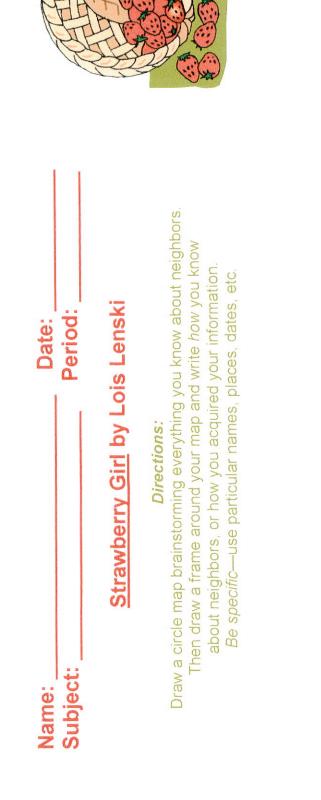
# Strawberry Girl by Lois Lenski

**Directions:** 

Write ten sentences using any ten vocabulary words (remember to underline the vocabulary). The sentences should relate to the novel <u>Strawberry Girl</u>.







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Subject:

Date: \_\_\_\_\_ Period: \_\_\_\_\_

# Strawberry Girl by Lois Lenski

Directions:

Draw a bubble map with 6 bubbles that describe strawberries. Remember to use adjectives or adjective phrases! Use the completed map to write 6 sentences about strawberries.



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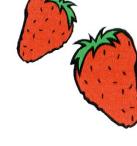
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Subject: \_\_\_\_\_

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# **Strawberry Sentences**



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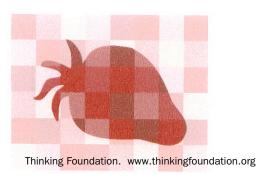


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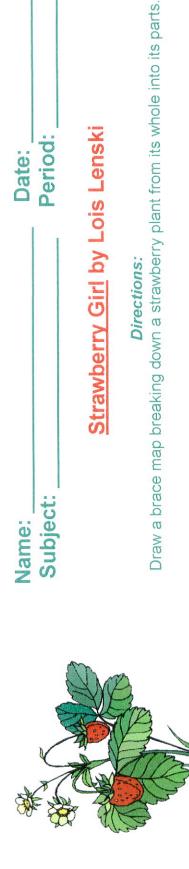
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Draw a tree map using the "w" words as categories (who, what, where, when, why, and how). Strawberry Girl by Lois Lenski Period: Date: Directions: Subject: Name:

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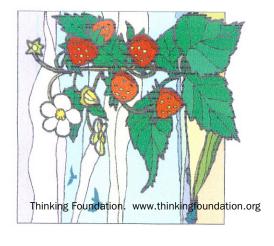
Name:

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Directions:

Draw a flow map sequencing the ten main events in the novel Strawberry Girl. Use your completed map to write a summary of the plot.

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Name: Date: Date: Period: Date:

Strawberry Girl by Lois Lenski

**Draw a multi-flow map describing the causes and effects** of the feud between the Boyers and Slaters. -



Draw a bridge map with a relating factor of "learned"; describe what the characters learned throughout the story.