

INTEGRATING LEARNING STYLES AND SKILLS IN THE ESL CLASSROOM: AN APPROACH TO LESSON PLANNING

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Note: Every attempt has been made to maintain the integrity of the printed text within the constraints of the electronic environment. In some cases, figures and tables may have been reconstructed or omitted.

Preface

The authors of this guide came together to explore the research findings on learning styles in a search for new and better ways to work with their language minority students. As staff of the English for Speakers of Other Languages-High Intensity Language Training (ESOL-HILT) program in Arlington County, Virginia, they were able to form a "tech" team (part of the system's staff development framework) to discuss these issues, under the leadership of Emma Violand Hainer, who has conducted research on the learning styles of Arlington's students. As they worked through applications in the classroom and developed lesson plans, the group wanted to share their experiences with others. The guide that follows is an important step in that process.

At about the same time, staff of the Center for Applied Linguistics (CAL) began collaborating with the ESOL-HILT program on a variety of projects, including the development of this guide. CAL is pleased to have been able to play a role in making the application of learning styles research developed by this dedicated group of teachers available to a national audience.

Figures adapted from B. McCarthy, *The 4MAT System* (1990), are used by special permission from Excel, Inc. Those desiring a copy for further reading should contact the publisher, Excel, Inc., 200 W Station St, Bennington, IL 60010.

Donna Christian
NCBE

INTRODUCTION

Just for a moment think about your reaction to a staff development announcement "inviting" you to a workshop on learning styles. As you read it, what thoughts cross your mind? Do you ask yourself why you should attend this workshop? Does it matter to you who the presenter is? Do you wonder what is meant by learning styles? Do you wonder how relevant it will be to your teaching situation? Do you think the topic sounds interesting? Some of these thoughts will be yours while others may never occur to you. This is not surprising because teachers, like all learners, have their favored learning preferences.

These preferences, or as they are often called, "learning styles," are the result of a complex interaction of age, educational experience, and cultural background. As is the case with native English speakers, limited English proficient students (LEP) approach learning as total human beings. Their academic success is influenced by emotional, biological, psychological, and cultural factors. In order to facilitate academic success, it is important to provide learning experiences that are accessible to all students with all learning preferences. The experiential learning model (Kolb 1984), which was developed for native English speaking students, seeks to accommodate, within each learning event, the principal styles that individual students bring to that event. Since LEP students bring a similar diversity of cognitive, conceptual, and behavioral modes into the

classroom, such a model promises to build on their experience by learning through preferred styles while expanding the range of styles available to them. (For a comparison of cognitive and learning styles of limited English proficient and English proficient students, see Hainer 1988.) This guide will explore the use of the experiential model in classrooms with LEP students.

A recent status report (Keefe et al. 1982) on learning styles and education recommends that administrators and teachers recognize the philosophical bias of their instructional model by considering two basic questions. Does the approach focus on "helping" students adapt to school demands or on helping students learn through their own styles? Furthermore, if the model focuses on learning styles, does it encourage students to "stretch" and strengthen their weaker areas?

In Arlington, an instructional model for the education of LEP students has evolved from the former to the latter; i.e., from making it the students' responsibility to adjust to the unfamiliar to meeting the students where they stand and helping them widen their horizon in learning. Consequently, how to improve delivery of instruction has been one of the major concerns as teachers have come face to face with the ever-growing and ever-changing LEP student population. To meet the differing needs of our LEP students, the ESL program in Arlington is integrating learning style theory and instructional strategies to enhance students' opportunities to learn. The goal has been to reach out to a diverse student population and at the same time find a workable instructional approach. Teachers found a practical version of the experiential learning model called the 4MAT model, with its classroom applicability as well as its sound conceptual basis, to be an excellent means for achieving both goals.

This guide presents the results of teacher experience. First, learning style theory and how it can be applied to the ESL classroom are described, then a set of exemplary sample lessons is presented using the 4MAT® model. It is hoped that this booklet will be a springboard toward designing more effective learning activities for all teachers concerned with the education of limited English proficient students.

LEARNING STYLES THEORY

Learning style can be defined as the usual or characteristic manner in which a learner goes about the task of learning (More 1987). There are various approaches to learning style that can be described as processes on a continuum. These approaches are not mutually exclusive; they represent different ways of viewing complex phenomena. Among these processes are:

- (a) global/analytical (More 1984)
- (b) impulsive/reflective (More 1976)
- (c) field dependence/field independence (Witkin et al. 1977)
- (d) simultaneous/sequential processing (Kirby 1984)

As style is concerned with very complex issues involving cognition, conceptualization, affect, and behavior (Guild & Gerger 1985), it is not surprising that various learning styles models exist. Each model typically focuses on a single aspect within this multidimensional set of factors (Guild & Gerger 1985). Given the diverse learning styles models and instruments (Keefe, et al. 1979), a model that was sought had a practical as well as conceptual value. Kolb's experimental learning model meets both requirements because of the availability of an excellent classroom application of the model by Bernice McCarthy (1980) in *The 4MAT® System: Teaching to Learning Styles with Right/Left Mode Techniques*.

Kolb (1984) acknowledges that his theory is eclectic, and that its applications are drawn from the work of John Dewey, Kurt Lewin, Carl Jung, Jean Piaget and Lev Vygotsky. He states further that "learning styles are the result of our hereditary equipment, our particular past life experiences and the demands of present environment." Kolb found that "it is the combination of how people perceive and how people process that forms the uniqueness of 'learning style'-the most comfortable way to learn". By combining two dimensions of

concrete experience and abstract conceptualization ("how we perceive") with two dimensions of active experimentation and reflective observation ("how we process"), Kolb established four categories of learning styles based on four learning modes (Kolb 1984).

According to Kolb, effective learning involves four phases: from getting involved (Concrete Experience) to listening/observing (Reflective Observation) to creating an idea (Abstract Conceptualization) to making decisions (Active Experimentation). (See Figure 1.) A person may become better at some of these learning skills than others; as a result, a learning style develops.

LEARNING STYLES APPLICATIONS

Bernice McCarthy (1980) took Kolb's learning style descriptions and amplified these to construct the 4-matting system of developing lesson plans for grades K-12. This system incorporates Kolb's four learning modern and recent research on right/left brain hemispheric processing. It should be remembered that each person's learning style is a combination of perceiving and processing information as McCarthy describes four major styles:

Type One "Innovative Learners"

- seek personal meaning;
- judge things in relationship to values;
- function through social interaction;
- want to make the world a better place;
- are cooperative and sociable;
- respect authority, when it is earned.

Type Two "Analytic learners"

- seek intellectual competence;
- judge things by factual verification;
- function by adapting to experts;
- need to know "the important things" and want to add to the world's knowledge;
- are patient and reflective;
- prefer chain of command authority.

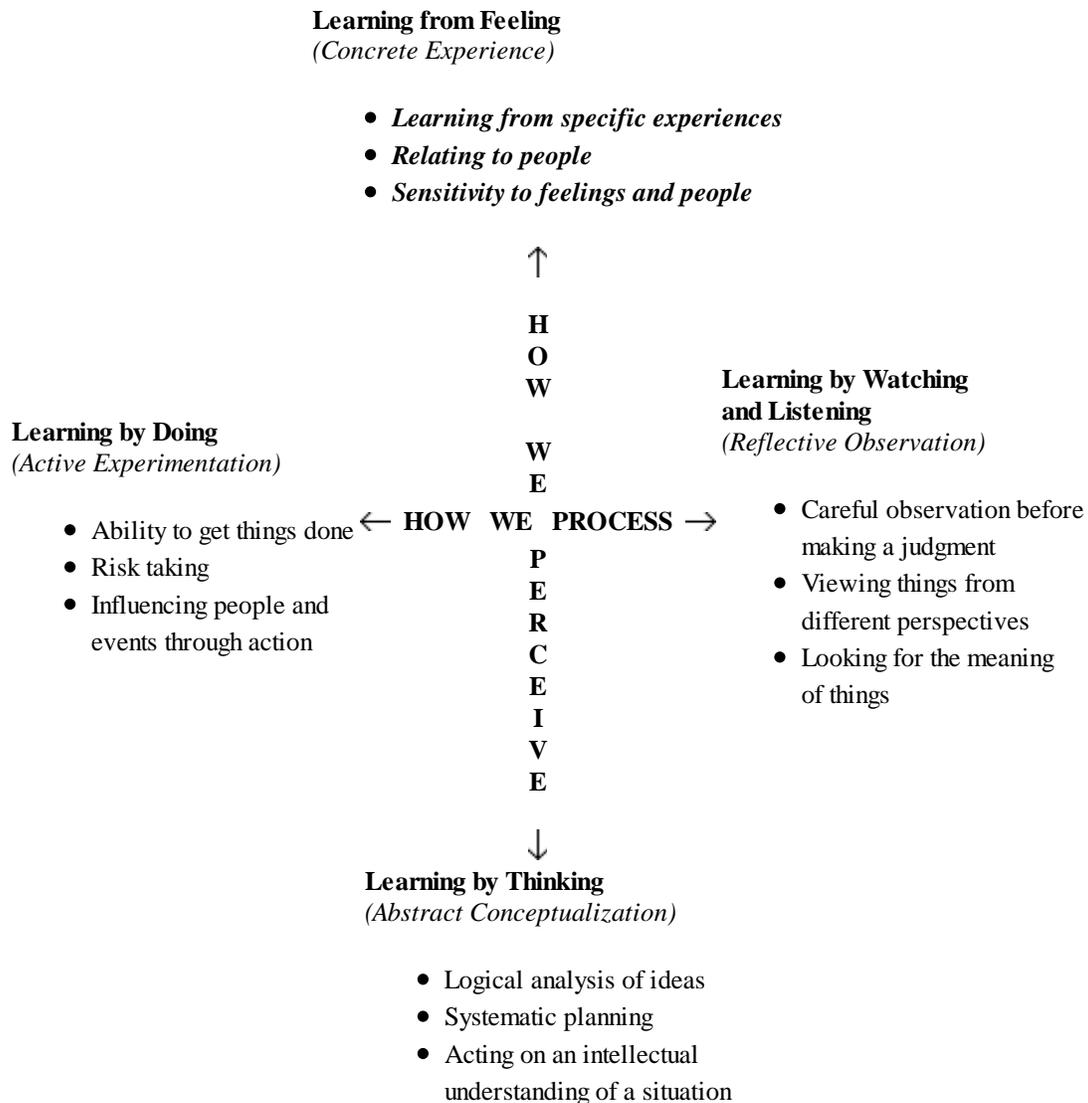
Type Three "Common Sense Learners"

- seek solutions to problems;
- judge things by their usefulness;
- function through kinesthetic awareness;
- want to make things happen;
- are practical and straightforward;
- see authority as necessary, but will work around it if forced.

Type Four "Dynamic Learners"

- seek hidden possibilities;
- judge things by gut reactions;
- function by synthesizing various parts;
- enjoy challenging complacency;
- are enthusiastic and adventuresome;
- tend to disregard authority.

FIGURE 1



(Note: Figure 1 has been reconstructed within the constraints of the electronic environment.)

Many teachers have already used most of the strategies of 4MAT® system and will find these strategies familiar. This system provides a framework that organizes and brings together various teaching strategies in a balanced manner ensuring that learners have an opportunity to learn in the mode that they prefer. Furthermore, it gives learners opportunities to develop their facilities in other learning styles.

The 4MAT® system model is based on a "wheel" for the development of lessons which will lead students from concrete experience to reflective observation to abstract conceptualization and finally to active experimentation (from Kolb's model). The 4MAT® wheel (shown in Figure 2) is divided into 4 sections which represent four different types of learners: innovative, analytical, common sense and dynamic.

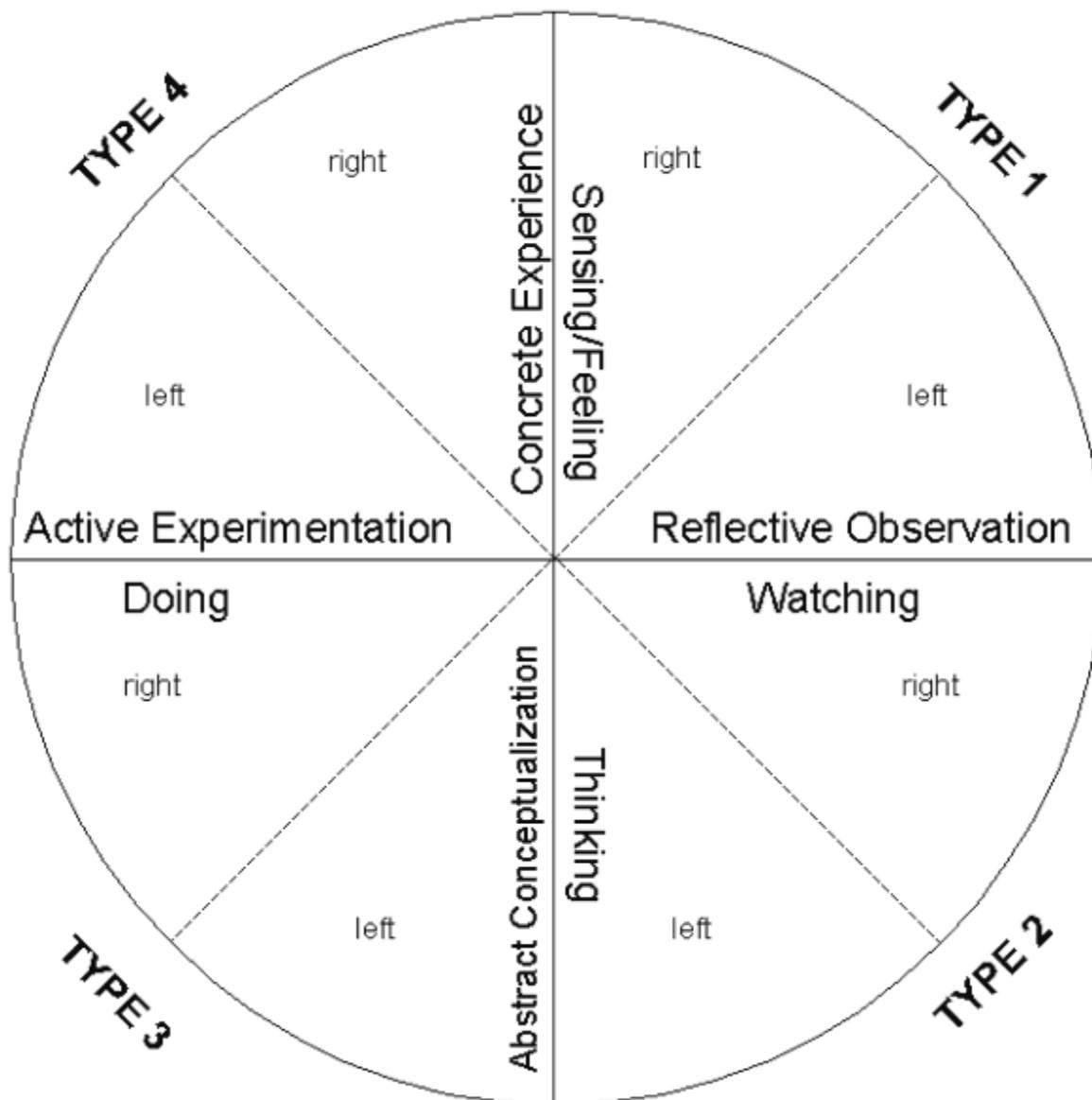
As we look at the wheel, we see that the innovative learners (type one) prefer to perceive new information by sensing and feeling and then reflect on what they have just experienced. Analytical learners (type two) perceive by watching and thinking and then develop theories based on what they observed. The common sense learners (type three) conceptualize and develop theories but then they must test out their theories to make sure they work. The dynamic learners (type four) learn best by sensing and feeling and then experimenting with the new information in different ways.

In addition, each quadrant of the wheel is subdivided into a right and left component to assure a whole brain approach to comprehending new material. The basis for such subdivision stems from culmination of research findings on brain functions.

Based on recent research, McCarthy (1980) suggests that the two halves of the brain process information differently. Although both hemispheres are equally important, they carry out differing functions. For instance, speech resides primarily in the left hemisphere while spatial capability resides in the right. At the same time, the two hemispheres differ in terms of the way they process information. For instance, linear, sequential processing takes place in the left whereas more global processing takes place in the right hemisphere. Due to the differences in processing information, the two hemispheres share equal importance in learning. Thus, utilization of both the left and right mode techniques promotes more meaningful learning for our students and these techniques are incorporated into each quadrant of the 4MAT®-based lesson plan.

Many educators want to know if one learning style is "better" than another or if they should teach students using only their favorite learning style. The answer to both questions is NO. Each learning style is special but at the same time, each learning style has its strengths and weaknesses. This means that in order to prepare our students for future challenges, we must help them to adjust and function in styles that may not be their most comfortable. Developing plans according to the 4MAT® wheel allows teachers to move students in one lesson through all four learning styles giving all students an opportunity to learn through their most favored way while working through others.

FIGURE 2. The 4MAT® System Model



ADAPTATION OF THE 4MAT® SYSTEM FOR DEVELOPING ESL LESSON PLANS

The lesson plans in the following section were designed by classroom elementary and secondary ESL teachers. Instead of the lesson plan being a sequential list of objectives and activities, the wheel allows teachers to keep the whole lesson in perspective as each section of the lesson plan is worked out. This allows for more continuity of activities and it gives the lesson a "flow" so that it can be immediately seen how each part is related to the other sections and how learning is not a series of fragmented strategies for skills taught in isolation. Since each quadrant on the wheel represents a learning style, each quadrant has been renamed so that the wheel follows the parameters of organizing a lesson: motivation, information, practice and application.

Motivation

The first quadrant addresses the needs of those students who must become actively and personally involved in the lesson. These students need to see why the material they will be learning is relevant to them, and also how it can be related to information that they have already experienced. This quadrant is labeled "Motivation"

since this learning style forms the basis for the initial phase of the lesson plan.

Concept Development

The second quadrant, "Concept development," is designed for those students who are interested in gaining new knowledge and who want the information as it is presented in texts and by researchers. This is an integral part for the presentation of the new material in the lesson.

Practice

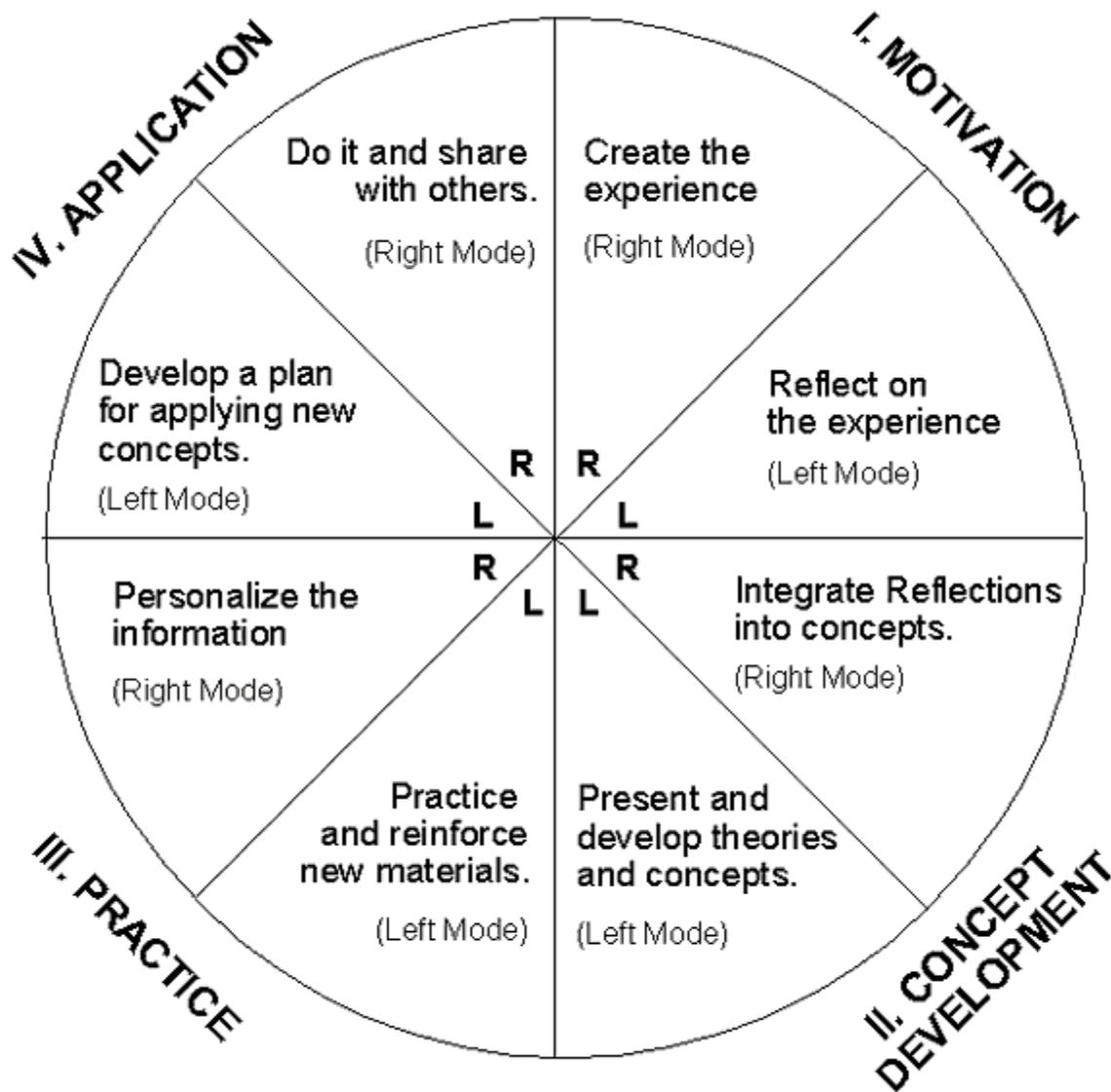
The third quadrant is the "Practice" part of the lesson and it is imperative that the students practice and understand what was presented in the information stage. Students need various types of exercises and activities to try out what they have learned in order to make it more understandable.

Application

The last quadrant is the "Application" stage of the lesson. Here the students are free to see how the new material can be used in other situations, even other disciplines. The students in this stage have left the practicing and "messing around" with the new concept, and have now branched out on their own to see other possibilities for using what they have acquired. This is a vital part of the 4MAT® plan since it is here where the students show that they have internalized the new material and have definitely made it part of themselves, so they are now ready to explore new areas with what they have learned.

The model we use is captured by the wheel shown in Figure 3.

FIGURE 3



Adapted from the 4MAT® System Model by Bernice McCarthy; Excel, Inc.; Barrington, IL. Copyright 1979.

DESCRIPTION OF SAMPLE LESSON PLANS

A selection of lesson plans illustrating use of the 4MAT® system is included at the end of this guide. These plans, reflect the integration of skills necessary for enhancing students' opportunities to acquire knowledge. Each lesson plan includes a wheel, a description of the concepts and skills being taught and suggested activities for each quadrant. Moreover, each of these plans has been tried and refined with beginning, intermediate, and advanced students in our classrooms at the elementary or secondary levels. A review of these plans, then, will allow you to see how skills can be developed and integrated from different perspectives. You can adapt as necessary each lesson to your instructional situation and the needs of your limited English proficient students. Concepts covered and skills emphasized are:

1. Learning About Yourself-Writing Skills
2. Learning How to Report Emergencies in the U.S.-Survival Skills
3. Planning for the Future-Functional Skills

4. Comprehending a Reading Selection and Applying It to Everyday Life-Reading Skills
5. Understanding the Similarities and Differences in Nature-Content Skills
6. Stimulating Creative Thinking and Writing With a Concrete Object-Writing Skills

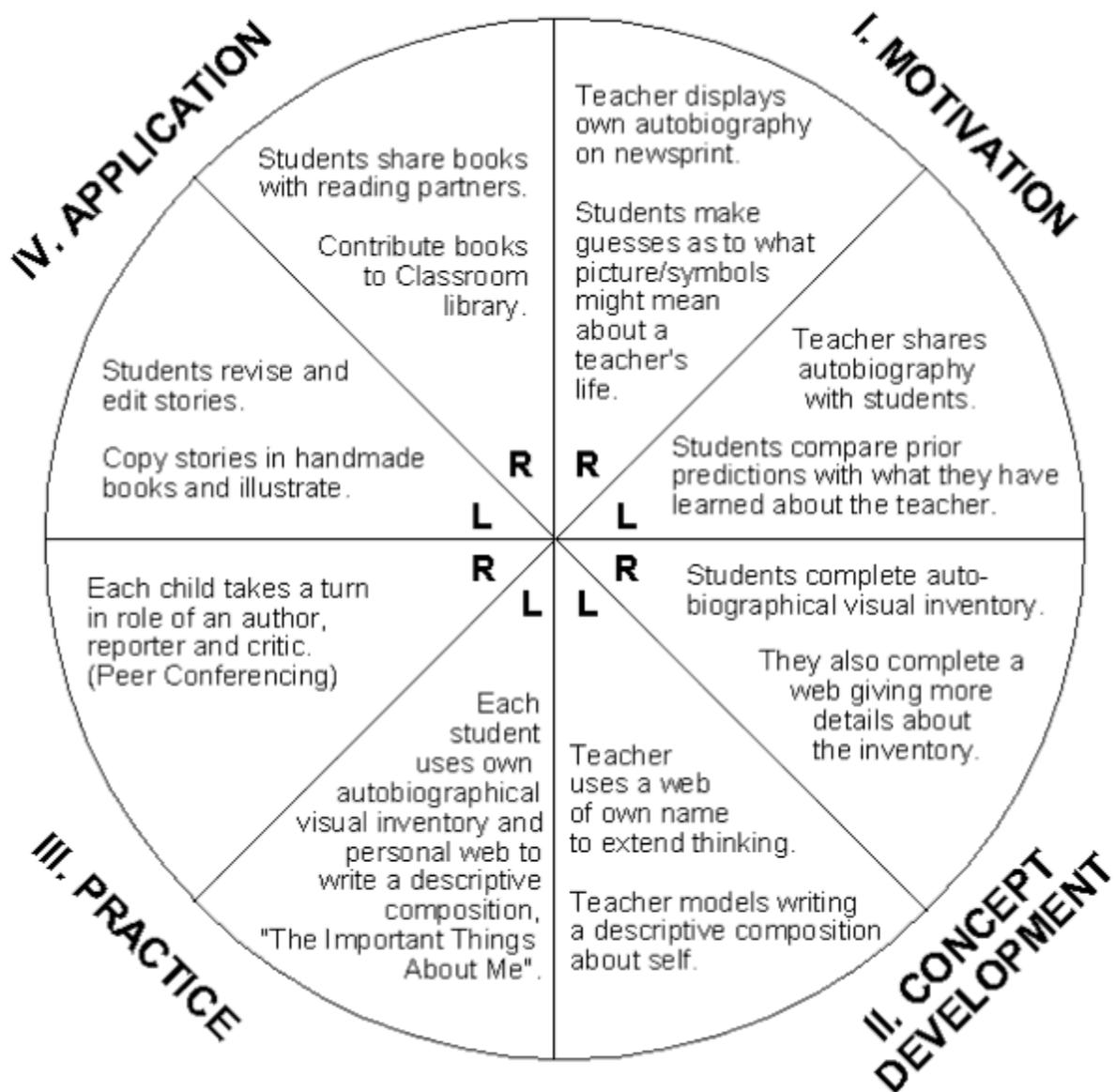
CONCLUSION

It is hoped that the usefulness of designing lesson plans with the 4MAT® system is clear. Using this system allows the teacher to provide different instructional strategies for everyone when learning new information. Each type of learner is offered an opportunity to learn using this model. Furthermore, each type of learner can acquire the ability to adapt to other learning style situations so as to become a more complete and open-minded person who now possesses alternate ways of gaining new information.

The lesson plans which follow are examples of how teachers have adapted 4MAT® as a framework for organizing their instruction for limited English proficient students.

LESSON PLAN I

Concept:	Learning About Yourself
Topic:	How To Write An Autobiography
Skill Emphasis:	Writing
Audience:	Beginning/intermediate/ advanced-elementary and secondary students
Time Frame:	Approximately 5 classes (50 minute periods). Primary students may need 10 days to complete the unit
Materials:	Teacher's autobiography on newsprint
Suggested by:	Shirley Porter



Adapted from the 4MAT® System Model by Bernice McCarthy; Excel, Inc.; Barrington, IL. Copyright 1979.

I. MOTIVATION

R. Create the Experience (Right Mode Strategies)

The teacher has a prepared autobiography done on newsprint. The paper can be divided into several sections, and a visual symbol or drawing relating to an important event in the teacher's life is represented in each section. After the students have looked over the pictures on the newsprint, they make guesses as to what the pictures might mean. This activity engages the students' attention immediately and helps to give focus to the lesson.

L. Reflect on the Experience (Left Mode Strategies)

The teacher now tells his/her own autobiography by explaining each picture. The teacher might want to duplicate the pictures on the newsprint in a book and write a sentence describing each picture. The students can talk about their prior predictions or what they now have learned about the teacher.

II. CONCEPT DEVELOPMENT

R. Integrate Reflections Into Concepts (Right Mode Strategies)

Each student will relate the important parts of the teacher's autobiography to himself/herself. Each student will make a visual autobiographical inventory of himself/herself. Students will draw pictures or symbols which will give information about themselves under specific categories. Students will also make their own personal webs which are extensions of the visual autobiographical inventory. The visual imagery of the inventory will help students find appropriate vocabulary to put in their personal webs. The teacher will also use directed questioning to expand students' thinking about themselves. Both the visual inventory and personal web are excellent pre-writing activities. Ideally the information gathering process will help each student reflect on what makes each of them unique.

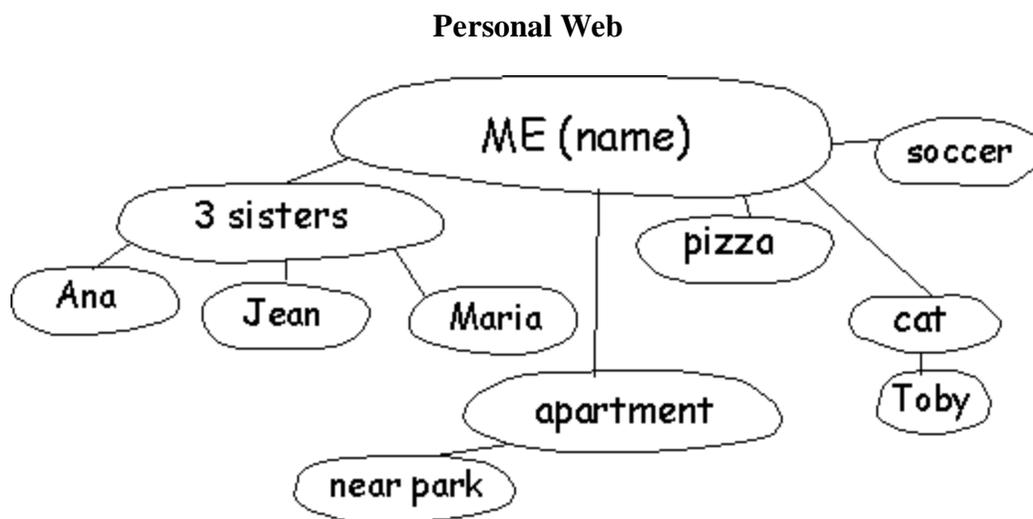
Autobiographical Visual Inventory

(note this figure has been reconstructed, original figure is handwritten)

<i>me</i>	<i>family</i>
<i>friends</i>	<i>house</i>
<i>pet</i>	<i>food</i>
<i>activities</i>	<i>things I like</i>

L. Present and Develop Theories and Concepts (Left Mode Strategies)

As a group, the students will make a personal web of their teacher. Using his/her own web as created by the students, the teacher will model writing a composition, "The Important Things About Me." The teacher will ask the students' help in constructing the sentences. The students will be able to see how thoughts can be transferred into writing.



III. PRACTICE

L. Practice and Reinforce New Information (Left Mode Strategies)

Students will begin the writing process by transferring their ideas from their autobiographical inventories and personal webs into a descriptive composition about themselves. The students are encouraged to use invented spelling so as not to interrupt their flow of ideas. Vocabulary in their visual inventories and personal webs can now be used as key words. Prior thinking about themselves can now be extended into personal anecdotes and explanations of those key words.

R. Personalize the Experience (Right Mode Strategies)

Students meet in groups of three to share their compositions. Each author reads his/her composition to the group. A "reporter" tells something he/she learned about the author, and a "critic" tells something he/she liked about the composition. Each student in the group will take turns in a role. All students have the opportunity to ask questions of the author. The peer group conference gives the students a chance to interact with each other and share thinking about each other's writing.

IV. APPLICATION

L. Develop A Plan for Applying New Concepts (Left Mode Strategies)

Each student will now sit down with the teacher and go through the process of editing for capitalization, punctuation, and spelling. The student has the responsibility for editing his/her own composition under the teacher's guidance. When the composition is completed, the student is ready to copy it into a book, illustrating each important event.

R. Do It and Share It With Others (Right Mode Strategies)

The students are now ready to share their books with their classmates or students from another class. The books will be read aloud and the reading partner will have the opportunity to interact with the author by asking questions or expressing appreciation. The completed books can be placed in a classroom library with other books written by the students. Students should be encouraged to read each other's books.

LESSON PLAN II:

(Note: Lesson Plan II has been reconstructed within the constraints of the electronic environment)

Concept: Learning How to Report Emergencies in the United States

Topic: Using 911 for fire, police, and ambulance emergencies

Skill Emphasis: Survival

Audience: Beginning ESL-elementary and secondary students

Time Frame: 4 classes (50 minute periods)

Materials: Arlington Community Television Videotape on Emergencies

Available from: 3401 Fairfax Drive, Arlington, Virginia 22201; (703) 524-2388; Teletrainers are available from local companies.

Suggested by: Corki Wesson

I. MOTIVATION

Left Mode:

Students talk about what is done or should be done in emergency situation in their countries and here in the U.S.

Right Mode:

Students view fire visuals to stimulate their personal memories about fires.

II. CONCEPT DEVELOPMENT

Left Mode:

Teacher presents oral and written words for emergencies:

Emergency, Accident, Ambulance, Fire, Address

Right Mode:

Students create a personal time line about important events in their lives.

III. PRACTICE

Left Mode:

Students make tentative plans regarding their school schedules.

Right Mode:

Students visit and observe elective courses or teacher invites teacher/students from elective courses to class.

IV. APPLICATION

Left Mode:

Students complete their schedules and meet with guidance counselors.

Right Mode:

Students share their schedules and discuss expectations for the following year.

I. MOTIVATION

R. Create the Experience (Right Mode Strategies)

Most students have seen fires. In order to stimulate students' own personal memories about fires, they view visuals on fire (perhaps a filmstrip or pictures). Students need to have the opportunity to talk about their own experiences with fire, their feelings in such a situation, and the dangers inherent in the emergency.

L. Reflect on the Experience (Left Mode Strategies)

The teacher leads the students in a discussion about the steps taken in their countries in the event of a fire, and what is done or should be done locally if a fire occurs.

II. CONCEPT DEVELOPMENT

R. Integrate Reflections Into Concepts (Right Mode Strategies)

The teacher shows a videotape or film about emergency services which teaches what can be done in the

United States when there is a fire.

L. Present and Develop Concepts and Theories (Left Mode Strategies)

The teacher presents and drills the oral and written vocabulary for the several different emergencies: emergency, address, accident, ambulance, police, and fire.

III. PRACTICE

L. Practice and Reinforce New Information (Left Mode Strategies)

Students need time to practice the vocabulary they just learned about emergency situations. They can complete worksheets, list types of emergencies, practice spelling and pronunciation of new words and practice addresses both orally and written.

R. Personalize the Information (Right Mode Strategies)

Students need more "hands-on" experiences with the teletrainer, so they can make up dialogs about emergency situations and role-play them with the telephones. Pictures are used to initiate this activity, but students will depart from these stimuli to create their own scenarios.

IV. APPLICATION

L. Develop a Plan for Applying the New Concepts (Left Mode Strategies)

Students must apply what they have learned to real-life situations. Each student will prepare a sticker to be placed on his/her telephone at home. On it, the student must write the 911 number, the emergency words, and their address. The sticker will be taken home, explained to the family and put on or near the home telephone.

911
My name is: <u>Nghe Dan</u>
I live at: <u>241 S. 8th Rd.</u>
My telephone number is: <u>667-8253</u>
I need the: _____ - fire department - police - ambulance

R. Do It and Share With Others (Right Mode Strategies)

The students visit a local fire station so they can see where calls are received and hear the voice of the dispatcher. They can view the fire engines and ambulances and in this way, they are bringing their experiences to full circle. The lesson can culminate in a student-designed bulletin board based on what they learned from the trip.

LESSON PLAN III

(Note: Lesson Plan III has been reconstructed within the constraints of the electronic environment)

Concept: Planning for the Future

Topic: To make specific plans for selecting courses for the next school year.

Skill Emphasis: Functional

Audience: Intermediate ESL - secondary students

Time Frame: 5 classes (50 minute periods)

Materials: Graduation requirement for your high school

Suggested by: Shirley Morrow

I. MOTIVATION

Left Mode :

Students write sentences telling themselves in the next five years from the visual.

Right Mode:

Students brainstorm about their future plans and depict their future in a visual.

II. CONCEPT DEVELOPMENT

Left Mode:

Teacher invites, as a guest speaker, a foreign born graduate of an American high school to speak to class about how he/she achieved success. Teacher presents graduation requirements and elective program.

Right Mode:

Students create a personal time line about important events in their life.

III. PRACTICE

Left Mode:

Students make tentative plans regarding their school schedules.

Right Mode:

Students visit and observe elective courses or teacher invites teachers/students from elective courses to class.

IV. APPLICATION

Left Mode:

Students complete their schedules and meet with guidance counselors.

Right Mode:

Students share their schedules and discuss expectations for the following year.

I. MOTIVATION

R. Create the Experience (Right Mode Strategies)

Students brainstorm or share experiences about their future plans. It is important that students think about the future and the fact that they have some control over their futures.

(KIDS THINKING)

(Note: Due to the limitations of the electronic environment, this figure has been omitted.)

L. Reflect on the Experience (Left Mode Strategies)

Students write sentences about how they visualize themselves next year or in five years; this forces them to focus on their own futures. The class discussion that follows this activity allows them to reflect on the control they have and the importance of exercising that control by planning wisely.

II. CONCEPT DEVELOPMENT

R. Integrate Reflections Into Concepts (Right Mode Strategies)

Students now create a personal time line visual, marking points of important events in their past and where important future decisions will be made. Before discussing specific graduation requirements, the students benefit from listening to the experience of someone who has been in their shoes. The ideal presenter for ESL students would be a foreign-born graduate of an American high school who has achieved success in this country. This person's experiences would most clearly parallel their own. Lacking such a presenter, the teacher would rely on a native-born graduate or on himself/herself and his/her own experiences. Students should have the opportunity to question the presenter, to discuss this person's experiences, to apply these experiences to themselves, and to ask for advice if they desire.

L. Present and Develop Theories and Concepts (Left Mode Strategies)

The teacher now presents local graduation requirements and the students are ready to examine specific requirements for graduation from a U.S. high school. They need to understand that in the United States, the students have some element of choice, but there are also specific requirements that must be met. After they understand the requirements, they need to examine the elective program in light of their own particular needs, interests and goals.

III. PRACTICE

L. Practice and Reinforce New Material (Left Mode Strategies)

Students are now ready to look closely at their own individual situations to determine what classes they must take in order to graduate. They can now begin to make some tentative plans to take home and discuss with their parents. Throughout the lesson, the role of the parents as helpers and advisors should be emphasized.

R. Personalize the Information (Right Mode Strategies)

Intelligent choices can best be made by students who clearly understand the class offerings in their own school. Students should have an opportunity to visit or discuss as many of the elective courses as possible. Substitute time can sometimes be arranged to allow an art or shop teacher, for instance, to plan a sample lesson for the ESL class. Other classes can be observed by small groups. Teachers and students from elective courses can be invited to visit the ESL class to make presentations about their subjects. Students should have an opportunity to meet and talk with as many of the school staff as possible.

IV. APPLICATION**L. Develop A Plan for Applying New Concepts (Left Mode Strategies)**

Students should now be ready to make schedules for next year that will be appropriate for them and further their own individual goals. This will probably be done individually with their counselors.

R. Do It and Share With Others (Right Mode Strategies)

Small group discussions after schedules are made allow students to share schedules with each other and to discuss their expectations for the following year. Teacher can prepare specific questions in advance to focus on these discussions.

LESSON PLAN IV:

(Note: Lesson Plan IV has been reconstructed within the constraints of the electronic environment)

Concept: The effects of rain on climate and people's lives

Topic: Compare/contrast rainfall in two geographical regions

Skill Emphasis: Reading

Audience: Beginning/intermediate ESL -elementary and secondary students

Time Frame: 3-4 classes (50 minute periods)

Materials:

The reading selection "Rain, Rain-Don't Go Away" is found in the High Action Reading Vocabulary B Series published by Modern Curriculum Press. The story is written at approximately a 2.5 reading level and describes how people's lives in two regions are different because of too little or too much rain

Suggested by: Barbara Fagan

I. MOTIVATION**Left Mode:**

Students discuss their reactions/feelings about activity; for example, memories, smells, places, etc.

Right Mode:

Students simulate sounds associated with rain.

II. CONCEPT DEVELOPMENT

Left Mode:

Students read "Rain, Rain -- Don't Go Away," as a basis for discussion about the effects of rain on climate and people's lives.

Right Mode:

Students develop "web" using vocabulary associated with rain.

III. PRACTICE

Left Mode:

Students complete questions and worksheets about story.

Right Mode:

Students complete "web" with vocabulary describing a dry climate.

IV. APPLICATION

Left Mode:

Students choose one activity to complete based on two webs, and apply it to their everyday lives.

Right Mode:

Students share and display their activities.

I. MOTIVATION

R. Create the Experience (Right Mode Strategies)

Students need to understand something about the topic they will be reading shortly. It is unrealistic to expect students to pick up a story and read for comprehension if they have not had prior information and the opportunity to recall this information. One way to stimulate students' recall about a topic is to have them simulate a rainstorm. Different groups of students can pretend they are thunder, lightning, wind and finally the rain. Role-playing the sounds and actions associated with rain greatly awakens their feelings about the topic, and it sets the stage for learning new materials.

L. Reflect on the Experience (Left Mode Strategies)

Students need a chance to sit back and reflect on what they have just experienced and how this either adds or changes what they already know about a topic. The teacher poses such questions as "How did you feel during the rainstorm?," "What did the trees look like during the storm?," "What was going on in your mind while you watched the rain?" etc. The teacher must remember to give a "wait time" after posing the questions so students can readjust their thoughts and feelings which they must now express verbally.

II. CONCEPT DEVELOPMENT

R. Integrate Reflections Into Concepts (Right Mode Strategies)

To continue this awareness about the topic, students need to generate vocabulary that can be associated with the topic they will be reading. A web in the shape of an umbrella can be presented and students must either fill in vocabulary words they associate with the topic "rain" or they can choose specific vocabulary that deals with that topic from a list provided by the teacher. This visual representation of vocabulary allows the teacher to see the types of words the students are bringing with them to the lesson. See the figure below:

UMBRELLA

(Note: Due to the limitations of the electronic environment, this figure has been omitted.)

L. Present and Develop Theories and Concepts (Left Mode Strategies)

The teacher guides students before the reading by asking them to predict what the title of the story might mean. After the students read the first few paragraphs, the teacher asks general comprehension questions and again asks students to make predictions about what may happen next. Predicting is an instrumental part in the reading process since it requires students to take risks or chances which in turn keeps them involved and motivated in the story so they can determine if their predictions were right or wrong. Students will gain new information from reading about the effects of rain on climate and people's lives.

III. PRACTICE

L. Practice and Reinforce New Concepts (Left Mode Strategies)

This is an excellent chance for students to practice vocabulary, specific reading skills that were found in the reading selection, and any other suggested activities that would benefit them. The teacher will probably want to give some form of student evaluation at this point to make certain that students have understood the story.

R. Personalize the Information (Right Mode Strategies)

Students need to make the information learned in the story work for them. Since the reading selection also talks about areas which don't have rain, the students can create a new web labeled "dry climate" to generate vocabulary about this topic they found in the story or already know.

IV. APPLICATION

L. Develop a Plan for Applying New Concepts (Left Mode Strategies)

Now that the students have completed two webs (rain and a dry climate), they are ready to complete one of the following activities: write a poem about a rainy place or a desert; write sentences describing the rain; write a comparison/contrast paragraph about the two kinds of weather; or create a booklet about things they can do on a rainy day. This activity can be done individually or in groups.

R. Do It And Share With Others (Right Mode Strategies)

Students need the opportunity to share with their peers any new information they have learned about the topic. By explaining their projects to others, students develop an "ownership" of this new concept. When the completed activities are shared, the students in the class gain additional information about the topic. Teacher should display projects in the classroom.

LESSON PLAN V:

(Note: Lesson Plan V has been reconstructed within the constraints of the electronic environment)

Concept: Understanding the Similarities and Differences in Nature.

Topic: To recognize and describe similarities and differences among trees. (Content lesson)

Skill Emphasis: Content Concept Development

Audience: Beginning/intermediate ESL students.

Time Frame: 4-5 classes (50 minute periods)

Materials: filmstrip/photographs about the different types of trees

Suggested by: Laurie Baker

Recommended book: The Tree

I. MOTIVATION

Right Mode:

Class walks around school, neighborhood or a local center, pointing out different types of trees. Students pick a tree they especially like and draw it.

Left Mode:

Students discuss the tree and drawings. The teacher lists the words that the students use to describe. Display words and pictures on a large chart or web in the classroom.

II. CONCEPT DEVELOPMENT

Right Mode:

Teacher shows filmstrip or photographs that depict trees of different types and from different climates. Students write metaphors about trees.

Left Mode:

Teacher presents the vocabulary and content from text. Describe the trees and tell how they are like the trees on the school grounds and how they are different.

III. PRACTICE

Left Mode:

Students complete vocabulary and comprehension exercises and label major parts of the tree.

Right Mode:

Students collect various kinds of leaves and classify them according to what they have learned.

IV. APPLICATION

Left Mode:

Each student prepares and illustrates a book on leaves and trees.

Right Mode:

Students read and share their tree books with class. The books can also be displayed on a bulletin board.

I. MOTIVATION

R. Create the Experience (Right Mode Strategies)

When working with beginning level LEP students, it is very important not to assume that the students have had prior experience with a particular subject. The teacher must provide the students with an experience upon which they can reflect and later refer back to for first-hand knowledge of facts. Walking with students through the school grounds, the neighborhood, or a nearby nature center, the teacher can give students an experience with trees. The teacher should direct the students' observations to points that will be useful in later classroom discussions, such as sizes and shapes of leaves, parts of a tree, types of trees.

L. Reflect on the Experience (Left Mode Strategies)

When the class returns to the classroom, the teacher should allow time for reflection and discussion about what the students have seen. To provide material for future reference, the teacher should record the students' observations on a chart which can be displayed throughout the course of the unit. Teacher should supply vocabulary words if necessary.

II. CONCEPT DEVELOPMENT

R. Integrate Reflections into Concepts (Right Mode Strategies)

The students need a chance to relate their experiences to the major concepts which are to be taught before the teacher presents the core content material for the unit. In order to do this, the teacher should provide the students with an experience which can be compared to an experience from their own lives. In this lesson, the teacher would show a filmstrip, slides, or photographs of a variety of trees from different areas of the world that are both similar and different to those observed on the nature walk. Using vocabulary from the chart and information from their own experience, the students should begin to make generalizations about the similarities and differences among species of trees.

L. Present and Develop Theories and Concepts (Left Mode Strategies)

The teacher follows the students' interpretation of the major concepts to be presented in the unit with a presentation of the vocabulary and content from the book, *The Tree*, by Pamela Nash, or any other content book on trees. The students' understanding of the vocabulary and content can be evaluated by the teacher through oral questioning. Questions should require the students to locate information in the story; to recall information from the story; to restate information from the story as it applies to the students' previous experiences; to make generalizations from the information drawn from the story and their experiences; and to apply learned information to hypothetical problem-solving situations.

III. PRACTICE

L. Practice and Reinforce New Information (Left Mode Strategies)

The students will have a chance to practice the concepts which have been taught. The students can complete teacher developed activities in the form of worksheets and games which provide reinforcement of the basic vocabulary and concepts in the lesson. The students can also label diagrams of the major parts of trees.

R. Personalize the Information (Right Mode Strategies)

The students can collect leaves from different trees and work in groups to classify the leaves according to the information they learned.

IV. APPLICATION

L. Develop A Plan for Applying New Concepts (Left Mode Strategies)

Students need a chance to integrate the material they have learned into their own experiences. Now the students will use the leaves to write and illustrate a book. While the format of the book will be the same for all the students, the content of the book will provide the students an opportunity for individual interpretation of the basic concepts presented in the unit. This activity provides additional practice in writing sentences comparing/contrasting the leaves the students have included in their books.

R. Do It and Share It With Others (Right Mode Strategies)

Giving the students a chance to share their work with others is a crucial step in bringing the unit to a close. By reading their books aloud to an audience of their classmates or peers and by later displaying the books so that other students and teachers can see them, the students develop a pride in their knowledge and the ability to share it.

LESSON PLAN VI:

(Note: Lesson Plan VI has been reconstructed within the constraints of the electronic environment)

Concept: Stimulating Creative Thinking and Writing with a Concrete Object.

Topic: The multiple uses of a brick.

Skill Emphasis: Writing

Audience: Beginning/intermediate/ advanced-elementary, secondary students.

Time Frame: 3 classes (50 minute periods)

Materials: one brick

Suggested by: Felicia Meier

I. MOTIVATION

Right Mode:

Teacher passes a brick around the classroom for students to handle.

Left Mode:

Students describe the brick in terms of color, weight and feel. Teacher lists adjectives on a transparency or newsprint.

II. CONCEPT DEVELOPMENT

Right Mode:

Students give possible uses for the brick. Teacher should elicit more "unconventional" uses; i.e. a doorstep, for exercising, etc. Student should then categorize all these responses in a web.

Left Mode:

Students generate sentences from the web using sentence patterns modeled by teacher.

III. PRACTICE

Left Mode:

Students write a creative paragraph about the uses of a brick.

Right Mode:

Students work in groups to brainstorm on how they would use 1,000 bricks.

IV. APPLICATION

Left Mode:

Students write individual or group paragraphs on how they would use 1,000 bricks.

Right Mode:

Students read paragraphs aloud in class for other students to hear the various responses.

I. MOTIVATION

R. Create the Experience (Right Mode Strategies)

Students pass a brick around the class. By handling it, they are actively involved in a concrete experience.

L. Reflect on the Experience (Left Mode Strategies)

Students need to reflect on the brick that they held and be able to describe it in terms of its attributes of color, weight, and feel. Some possible student responses are: red, dirty, rough, flat, heavy, broken, and hard. By listing on the board the attributes elicited from the students, the teacher is preparing the information that will be used in quadrant two.

II. CONCEPT DEVELOPMENT

R. Integrate Reflection Into Concepts (Right Mode Strategies)

The students are asked to reflect some more about the brick and determine its possible uses. To emphasize the goal of creativity in this lesson, the teacher should try to elicit more "unconventional" uses of the brick; i.e., a doorstep, used for exercising, etc. To organize this information, the students will complete a web. See figure

below:

"BRICK" WEB

(Note: Due to the limitations of the electronic environment, this figure has been omitted.)

L. Present and Develop Theories and Concepts (Left Mode Strategies)

The teacher models sentence patterns from the web and the students continue generating their own sentences about the brick using these patterns.

III. PRACTICE

L. Practice and Reinforce New Information (Left Mode Strategies)

This is when the students use the information and sentences from the web to develop their own creative paragraph about the many different uses of a brick. Students will also need to develop a topic and a concluding sentence for their paragraph.

R. Personalize the Information (Right Mode Strategies)

Students now brainstorm for ideas on how they would use 1000 bricks. This may be done in small groups or as a class.

IV. APPLICATION

L. Develop a Plan for Applying New Concepts (Left Mode Strategies)

Now that the students have brainstormed, they can work on writing a paragraph about how they would use 1000 bricks. This paragraph can be done individually or in small groups. Students can also illustrate their work. At a lower level, the illustration could be emphasized more and sentences could be used to describe the picture.

R. Do It and Share With Others (Right Mode Strategies)

In order for students to hear all the creative ideas that came out of the brainstorming session and were developed in paragraphs, they should share their work with the class. The students should be able to truly appreciate the creativity of their peers.

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1983.

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