Perimeter and Area Review

Name: Julie Rickards  
Subject: Mathematics  
Content Area: Perimeter and Area

Date: October, 9, 2002  
Grade: 9  
Time: 1st period  
Duration: Approx. 80 min.

LESSON RATIONALE

NYS English/Language Arts Learning Standards:

Standard 1: Students will read, write, listen, and speak for information and understanding.

   Key idea 1: Listening and reading to acquire information and understanding involves collecting data, facts, and ideas; discovering relationships, concepts, and generalizations; and using knowledge from oral, written, and electronic sources.

   Key idea 2: Speaking and writing to acquire and transmit information requires asking probing and clarifying questions, interpreting information in one's own words, applying information from one context to another, and presenting the information and interpretation clearly, concisely, and comprehensibly.

NYS Mathematics Learning Standards:

Standard 3: Students will understand mathematics and become mathematically confident by communicating and reasoning mathematically, by applying mathematics in real-world settings, and by solving problems through the integrated study of number systems, geometry, algebra, data analysis, probability, and trigonometry.

   Key Idea 3: Students use mathematical operations and relationships among them to understand mathematics.

Instructional Objectives:

Student will:
   1. be able to verbally contribute answers to class examples with 90% accuracy.
   2. be able to complete class work examples in writing with 85% accuracy.
   3. be able to apply the notes from class to their class work with 90% accuracy.

Adaptations:

• For the students with learning disabilities, problems will be written on board and presented orally.
• For student with ADD, the time frame of the instruction will be brief, yet still detailed enough for success.
For student with writing disability, the notes will be scribed.

Materials:
- Review notes packet (25 copies)
- Class work packet (25 copies)
- Chalk
- Pen

LESSON OPENING

Anticipatory set:
"We have been working in class lately on reviewing for our test next week. Monday we went over how to solve equations and we looked at three different puzzles that involved this topic. Today we are going to look at word problems that involve perimeter and area of squares, rectangles, circles and other figures. Before we get started with this let’s go over the homework that is due today. There were two puzzles that you had to finish. Please get them out."

LESSON BODY

Activities:
1. Review homework
   - Go over any problems that the students had problems with. Take volunteers for problems to answer.
   - Complete problems with students on the board [guided practice]

2. Go over guided notes [modeling]
   - Have students take out packet that they picked up on the way into class.
   - Students must fill in blanks as we go along.
   - Remind students that they will need these formulas for the class work.
   - Have students explain the process written in the notes that is used to solve the different problems.
   - Work out problems in notes on board.

3. Complete class examples
   - From class work packet work through problems # 8 and 18 together with the class. [guided practice]
   - Remind students that they need to read the directions carefully. Make sure that they know what the questions are asking.
   - Must work independently, show all work, what ever is not complete in class is homework.

4. Questions
   - Students will have a chance to ask any questions that they have.
5. Class work [independent practice]
   • Students will work on problems #1-20 in packet.
   • Teachers will circulate to provide assistance and reading for students having difficulty.

Closure:
“Great job today. Can someone please tell me how you find the area of a rectangle? [Allow students to answer] How about how to find the circumference of a circle? [Allow students to answer] The area of a circle? [Allow students to answer] These types of problems are like what will be on your test next week. Make sure that you understand what is happening and that you get help if needed.”

LESSON FOLLOW-UP

Independent Practice:
   1. Packet of problems

Evaluation:
   What do I want the students to learn?
   • How to read word problems for the important information
   • How to solve problems involving perimeter and area

   How will I know that they have learned it?
   • Quality of verbal participation.
   • Correctness of class work.
   • Amount completed and correctness of homework.

LESSON RESOURCES

References for teacher use:

References for student use:
   • Teacher produced packets