Family and Consumer Sciences Lesson Plan

FACS State Course Name: Interior Design

Unit: Residential Programming Lesson: Perimeter Review

Competencies/Purpose: Practice calculation perimeter to be able to draw shapes correctly

Time Needed: 50 min Author: Robert Van Dyke

FACS Standards (Colorado and National):
(COID2) Demonstrate awareness of design drawings, tools and techniques.

(COID2.1) Identify, create and differentiate types of design drawings.

(COID2.3) Practice and apply the basic drawing techniques.

Colorado Academic/Model Content Standards:
MAT04.01.d - Shape, Dimension, and Geometric Relationships - Attributes of two- and three-dimensional objects are measurable and can be quantified - Apply the effect of dimensional change, utilizing appropriate units and scales in problem-solving situations involving perimeter, area, and volume.

VIA04.02.a-Visual Arts, Relate and Connect to Transfer, Communication through advanced visual methods is a necessary skill in everyday life - Use sketches, plans, and models to create and/or design a functioning work of art.

Objective(s): Upon Completion of this lesson, students will be able to:
Practice calculating the perimeter of rectangles, triangles, and circles.

Instructional Strategies:
- Assigned Questions
- Brainstorming
- Case Study
- Computer Assisted Instruction
- Concept Attainment
- Concept Mapping
- Conducting Experiments
- Cooperative Learning
- Debates
- Demonstration
- Discussion
- Drill & Practice
- Field Trip
- Inquiry
- Interviewing
- Jigsaw
- Journal Writing
- Laboratory Groups
- Learning Centers
- Lecture
- Peer Partner Learning
- Problem Solving
- Reading for Meaning
- Research Projects
- Role Playing
- Simulations
- Storytelling
- Think, Pair, Share
- Tutorial Groups
- Writing to Inform

Tools, Equipment & Supplies:
- Computers (Click here to enter text.)
- Construction Paper
- Markers, Scissors, etc.
- Paper
- Printer(s)
- Other Tangram Pieces

Resources:
- Handouts
- Textbook pgs. Click here to enter text.
- Multimedia Click here to enter text.
- Overhead Masters
- Workbook pgs. Click here to enter text.
- Other Click here to enter text.
Key Terms: Defined on the note sheet key

Introduction:
Tangram Activity:
Pass out TANGRAM WORKSHEET (best if already cut or they will need to cut them out) to each student.
Rules: Must use all pieces, pieces must not overlap, and all pieces must touch another pieces. They will then need to first make a square, then a triangle, then a trapezoid. Review on overhead how to make each shape.

Exploring the Content (Lesson):
Vocabulary Notes:
Pass out GEOMETRY NOTES to students. Review vocabulary on geometry using the overhead. Students must complete notes as vocabulary is reviewed.

Perimeter Demonstration:
Demonstrate how to find the perimeter of rectangles, circles, and triangles. Students must complete notes with demonstration.

Perimeter Practice:
Pass out GEOMETRY PRACTICE #1 to students. Students will find the perimeter of each shape.

Review/Summary:
Review:
Have individual students demonstrate how to find the perimeter of each of the shapes on the worksheet.

Homework: Students will complete GEOMETRY PRACTICE #2 for homework.

Assessment:
Geometry Notes
Geometry Practice #2

FCCLA Integration:
STAR Events
   Interior Design
   Habitat For Humanity Interior Design Event