



KAPOW LESSON PLAN

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Grade Level 4 Gifted

Lesson Plan Title: Sand Castles

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Objectives: To increase student's awareness of the importance of teamwork
To help students recognize and appreciate each individual's contribution to team effort

SSS/CBC's:

Mathematics

II.14.C Constructs physical models and draws diagrams to represent area and perimeter of appropriate geometric figures, including regular and irregular polygons.(MA.B.3.2.1)

III.2.B Draws and classifies two-dimensional figures having up to eight or more sides. (MA.C/2/2/1)

III.3.B Uses manipulatives to solve problems requiring spatial visualization. (MA.C.2.2.1)

Step-By-Step Procedures:

Introduce construction of the following 3-dimensional shapes: rectangular prism, cube, cylinder, triangular prism, cone, square pyramid and rectangular pyramid

Explain to student that they will have 45 minutes to create a sand castle using only the white paper given. They must include all the shapes listed and will be graded on:

Artistic design

Inclusion of all shapes

Teamwork

Required Materials: White construction paper, tape, scissors, rulers and worksheets showing shapes.

Assessment Based On Objectives: Students must construct at least two 3-dimensional shapes using appropriate team behavior.

Homework: Lesson 30.2

Adaptations for ESE, LD and ESOL:

Use the vocabulary cards in the back of the math book or have them label the shapes in their native language.

Extensions (For Gifted Students):

Student in each group can count vertices, faces, and edges for each castle.

Integration: Connections To Other Subjects:

Math, Science (engineering) , Social Studies Historical architecture or medieval period, Writing, and Reading (Write a response journal and research castles)

Sand Castles

1. Must include the following shapes:
 - Cubes
 - Cylinder
 - Rectangular prism
 - Triangular prism
 - Cone
 - Square pyramid
 - triangular pyramid
2. Artistic expression and good craftsmanship
3. Must work well as a group and demonstrate good teamwork.

Reflection

1. What would we have done differently?
2. What did we learn in math today?
3. What did we learn about working in a group today?