



Form Unit G7 Straw Pyramid and Cube
45 Minute Sessions 4 Days
Interdisciplinary: Geometry

Objective: Compare and contrast 2D and 3D while creating forms from straws.

Goal: Sculpt a cube, prism, pyramid, sphere, cylinder and an organic form.

Essential Question: What is 3D? Compare and contrast 2D and 3D.

Essential Standards

7.CX.2.2: Select skills and information from other disciplines to solve artistic problems.

7.CR.1.2 Implement formative and summative evaluations of personal art.

7.V.2.1 Evaluate solutions to artistic problems.

3D: 3 or more sides a cube

2D: a drawing is 2D

Prism: a pyramid shape

Cube: a geometric shape with 4 equal sides

Perpendicular: lines that create a 90 degree angle

Shape: 2 dimensional an area defined by a change in value or line

Form: 3D an object with three or more sides

Parallel: Lines that are an equal distance apart

Materials:

- Paper straws
- Pen
- Tape
- Project Rubric

5 minutes

Review and Focus: The teacher will:

Remember we created 3D forms called cubes last class? What is **parallel**? What is **perpendicular**?

Today we will learn how to change or **translate** a **2D shape** into a **3D form**.

15 minutes

Teacher Input: The teacher will:

Discuss vocabulary words

Read and Write directions using a Project Rubric

Demonstrate **parallel**, **horizontal**, **perpendicular** and **equal** sides on the dry erase board.

Read the Goals on the board:

Demonstrate the process for the students while showing a finished sample.
How can we make a **pyramid**?
Demonstrate the skills.

Goals: Write and read the directions on the board.

1. Plan your **form** out by drawing on the rubric first.
2. Create a square shape
3. Measure and mark the straws equally.
4. Use a T-square check for **perpendicular lines** and **parallel** lines the lines of the base must be **parallel** or **create a square**.
5. Create 2 triangles with sides that are the same length as the square sides.
6. Tape together to create a pyramid.
7. Use tape to write your name on your sculpture

25 minutes

Guided Practice:

The students will:

See and hear directions

Summarize the directions on the rubric

See and hear a demonstration

Sculpt a straw **pyramid**

Draw a pyramid on the rubric

Discuss architecture as a career

Day 3 Guided Practice:

The students will:

Draw a cube on the rubric

Sculpt a straw cube

Independent Practice: SBA #5

5 minutes

Closure: Ask the students to write their name on the form.

The students will put away materials by table; the teacher will collect the projects and place them on the shelf and in the folders.

5 minutes

Evaluation: Give an example of **3D** and **2D**. KWL what is one thing you know, one thing you will do with that knowledge and one thing you want to know more about? What is a T-square? Can you use a T-square to build a house?