

It's in the Nets

SPI 3108.4.5

Objective: Students will use nets to explore polyhedrons.

Materials List:

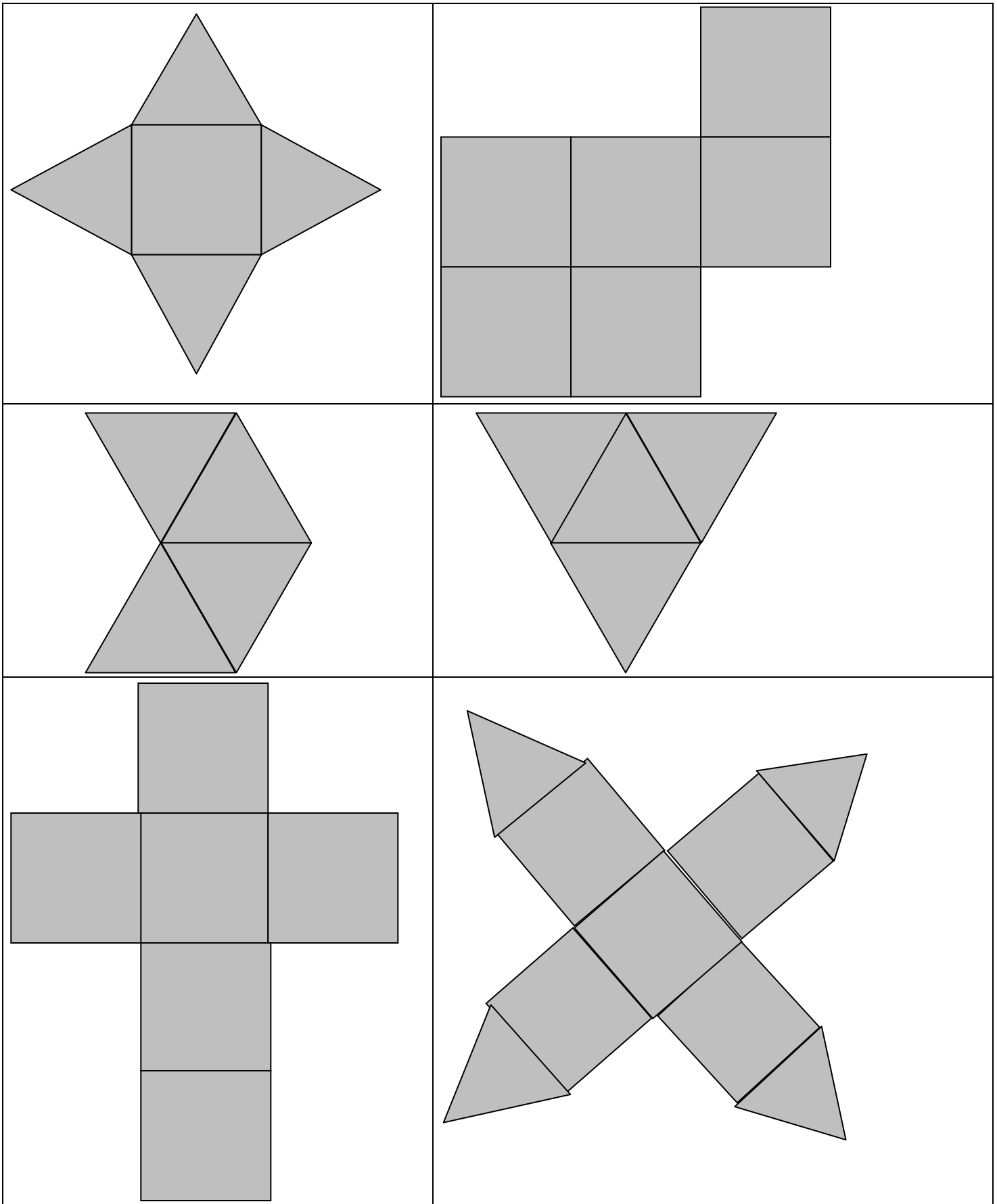
- The attached sheets of examples.
- Scissors
- Tape

Standard: Describe solids and /or surfaces in three-dimensional space when given two-dimensional representations for the surfaces of three-dimensional objects.

Planning and Pacing: 30 - 45 minutes

It's in the Nets – Activity #1

1. A two-dimensional model that can be folded to make a polyhedron is called a net.
2. Predict whether the following nets will actually make a polyhedron.



It's in the Nets – Activity #2

1. Every polyhedron has a certain number of vertices, faces, and edges.
 - a. Each corner of the polyhedron is called a vertex.
 - b. The segment between two vertices is called an edge.
 - c. Each polygon that makes up the polyhedron is called a face.
2. Use the attached nets and fold them to form polyhedrons.
3. Count the number of vertices, faces, and edges. Write down your data in the chart provided.

Polyhedron	V (# of vertices)	F (# of faces)	E (# of edges)
Square Pyramid			
Pentagonal Prism			
Cube			
Triangular Prism			

4. What pattern do you see between V, F, and E? Write at least one equation.

