

3-D Review Game w/ Nets

Standards

Content

Students will be able to...

- Apply mathematical knowledge to real world situations
- Create models of geometrical concepts
- Identify polyhedron

Process

Students will be able to...

- Work cooperatively with peers

Task Description and Criteria

You will work with a partner to build a 3-D polyhedron review game. First you will choose which polyhedron you want to construct. It can either be a cube, rectangular prism or triangular prism. In order to construct the polyhedron, you must be able to identify its shape and construct the net. Make your polyhedron look as much like a game piece as possible. On each face of the polyhedron you will write a review problem about polygons and/or polyhedron. You will write out each of the review problems on separate paper and work out the solutions. Finally, you will exchange polyhedron review games with another pair and solve the problems they had created.

Your grade will be based on the following criteria:

- ❖ Polyhedron constructed with accurate net
- ❖ Polyhedron needs to resemble a game piece
- ❖ Each face has a review problem
- ❖ Review problems all pertain to polygons and polyhedron
- ❖ Solutions to your review problems worked out and accurate
- ❖ Worked cooperatively with partner
- ❖ Played another groups review game and solved all of their problems

Rubric

Criteria	Poor- 0	Fair- 2	Good- 3	Excellent- 5
Polyhedron Net	No net constructed or inaccurate		The net was accurate but not constructed very well	The net was accurate and constructed perfectly
Polyhedron Game Piece	Polyhedron does not resemble a game piece (dull appearance)		Polyhedron resembles a game piece (colorful and neat)	
Review Problems on Faces of Polyhedron	None of the faces have a review problem	1-2 faces have a review problem	3-4 faces have a review problem	All faces have a review problem
Review Problems Relevant	No problems deal with polygons and polyhedron			All problems deal with polygons and polyhedron
Solutions	No solutions accurate	Few solutions accurate	Most solutions accurate	All solutions accurate
Worked Cooperatively with Partner	No		Yes	
Played Review Game of other Group	Did not play another groups review game	Played but did not solve hardly any problems	Played and solved most of the problems	Played and solved all of the problems

Total: / 31 points