A.3 Art Project

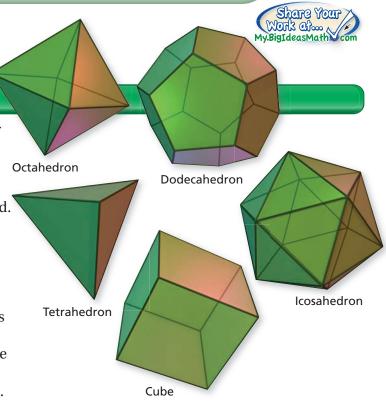
Polyhedra in Art

1 Getting Started

Polyhedra is the plural of polyhedron. Polyhedra have been used in art for many centuries, in cultures all over the world.

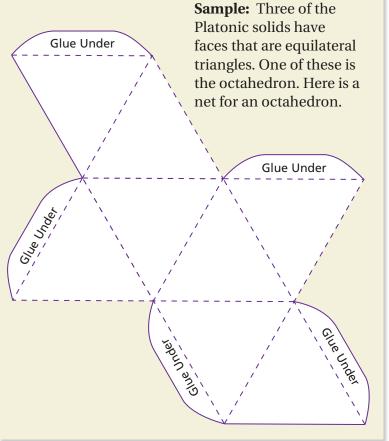
Essential Question Do polyhedra influence the design of games and architecture?

Some of the most famous polyhedra are the five Platonic solids. They have faces that are congruent, regular, convex polygons.





Mosaic by Paolo Uccello, 1430 A.D.



2 Things to Include

- Explain why the platonic solids are sometimes referred to as the cosmic figures.
- Draw a net for an icosahedron or a dodecahedron. Cut out the net and fold it to form the polyhedron.
- Describe the 13 polyhedra that are called Archimedean solids. What is the definition of this category of polyhedra? Draw a net for one of them. Then cut out the net and fold it to form the polyhedron.
- Find examples of polyhedra in games and architecture.



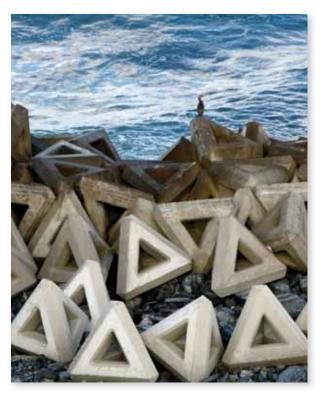
Faceted Cut Gem



Origami Polyhedron

3 Things to Remember

- Add your own illustrations or paper creations to your project.
- Organize your report in a folder, and think of a title for your report.



Concrete Tetrahedrons by Ocean



Bulatov Sculpture