

GEOMETRY IN \_\_\_\_\_  
Rising 6TH Grade Summer Math Project

Geometry abounds in the “real world.” This project will increase your awareness of the geometric figures in the world around you. The grade on this project will count as a test for the first term.

You need to find at least 8 of the following 2-D items, AND at least 2 of the following 3-D items. Take a photo of each chosen item. **All photos should be appropriate for classroom use.**

**8 ITEMS FROM THIS BOX**

acute angle	line	ray
adjacent angles	line parallel to a plane	rectangle
alternate interior angles	linear pair	rhombus
angle	midpoint	right angle
angle bisector	obtuse angle	right triangle
collinear points	octagon (NOT a stop sign)	scalene triangle
congruent angles	opposite rays	segment
congruent polygons	parallel lines	skew lines
corresponding angles	parallel planes	square
equilateral triangle	parallelogram	angle
hexagon	pentagon	trapezoid
hypotenuse	perpendicular lines	triangle
intersecting lines	plane	vertical angles
intersecting planes	point	circle
isosceles triangle		

**2 ITEMS FROM THIS BOX**

cylinder	cube	rectangular pyramid
sphere	cone	triangular pyramid
rectangular prism	triangular prism	ellipsoid
pentagonal prism	hexagonal prism	octahedron

When taking your pictures, please attempt to capture something unique, creative, and artistic. Your pictures must be original and cannot be taken from the Internet, another student, or another photographer. Your collection of photos should be developed and placed into a creative book format. Make sure to have a cover with your name and project title (Geometry In \_\_\_\_\_) on it. Each page should have the geometric term at the top, a clear copy of the photo, a brief definition of the term in relationship to the picture, and an identification of where the picture was taken. Each page may be hand-written or computer generated. As always, use proper grammar and correct spelling!

## Congruent Polygons



This picture was taken in my foyers. The pictures on the wall are examples of congruent polygons, which are polygons that have exactly the same size and shape.

Brainstorm ideas for creating your book. You may use a folder, yarn with cardboard, or another creative idea for creating your book. Don't tape or staple your pictures to the paper, use stick (paper) glue OR print the pictures directly on the page using your home computer. You may enhance each page with colorful markers, stickers, clip art, and/or stencils. This project is a reflection of you, put a bit of your personality into it.

To sum it all up, you will be handing in a book complete with a cover and 10 pages.

This project is due at the beginning of class on the **SECOND DAY OF SCHOOL**. Five points will be deducted for each day the project is late.

On the second day of school, you will give a brief presentation of your project to your class.

An example project will be in the school office as a reference. The grading rubric is shown on the following page.

I hope you have a **MATH-MAGICAL** time completing this project. I cannot wait to see what you do as you explore **Geometry in Your World!!**

## Math Project Grade Sheet

**Student Name** \_\_\_\_\_

**Project Grade** \_\_\_\_\_

	Points Earned	Points Possible	Comments
Name and Title on Cover		5	
In "Book" Format		5	
Page 1, Label, Photo, Where Taken, and Definition		7	
Page 2, Label, Photo, Where Taken, and Definition		7	
Page 3, Label, Photo, Where Taken, and Definition		7	
Page 4, Label, Photo, Where Taken, and Definition		7	
Page 5, Label, Photo, Where Taken, and Definition		7	
Page 6, Label, Photo, Where Taken, and Definition		7	
Page 7, Label, Photo, Where Taken, and Definition		7	
Page 8, Label, Photo, Where Taken, and Definition		7	
Page 9, Label, Photo, Where Taken, and Definition		7	
Page 10, Label, Photo, Where Taken, and Definition		7	
Creativity		10	
Followed Directions		10	

