



Unit 2 Geometry Math PK4

Last Update: August 1, 2025

*Archdiocesan Essential Curriculum > Grade PK4 > Math > Week 18 to 25

Stage 1: Desired Results	
General Information In this unit, students explore 2-dimensional and 3-dimensional shapes. They will identify, describe, compare, and contrast shapes. Additionally, they will locate shapes in their environment. Students will learn that 2-dimensional shapes are flat and 3-dimensional shapes are solid. Recognizing simple shapes is also listed in the Daily Routines and Practices Units. Learning the basic shape names throughout the year will help reinforce the concept.	Essential Question(s) • How do we recognize and name different shapes in the world around us? • What makes each shape unique? • How can we describe shapes?
Enduring Understanding/Knowledge Students will understand: • Shapes have names and attributes that identify them. • Shapes can be 2-dimensional or 3-dimensional (flat or solid). • Shapes can be found in our environment and in our Catholic faith. • 2-dimensional shapes are “flat”. • 3-dimensional shapes are “solid.”	Vocabulary • shape • 2-dimensional (2D) • 3-dimensional (3D) • flat • solid • <i>attributes of 2D shapes:</i> corners (vertices), sides • circle • square • triangle • rectangle • oval • diamond • star • heart • cross • sphere • cylinder • cube • pyramid • cone • triangular prism • rectangular prism • <i>Attributes of 3D shapes:</i> faces, edges, vertices (corners)

Connections to Catholic Identity / Other Subjects Religion/Catholic Identity: - Refer to the cross as a shape. Compare different types of crosses and explain that a Crucifix differs from a cross in that Jesus' body is pictured on a Crucifix. Art: - All things are made up of shapes. Examining objects for the shapes they are composed of will help students draw figures. ELA: - Look at letters for shapes, specifically curves and lines. Letters can be grouped into categories by shapes.	Differentiation Support - - Small groups, differentiated by ability. Some students will be working on identifying shapes on paper, some will be identifying shapes in the environment, some will be comparing shapes. "Offices" for students who are distracted - Draw the shape for those struggling with shape drawing to trace or stencils for them to trace. - For students who have difficulty recognizing shapes, give them kinesthetic experiences – walking on a masking tape shape, fitting play-doh into the outline of a shape, etc. Enrich - - Independent students familiar with shapes can go on a shape hunt around the room or record the number of shapes they see in a particular graph.. - Independent students familiar with shapes can be challenged to learn new shapes, such as hexagon, pentagon, etc.
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Standards & Benchmarks

Identify and describe 2-dimensional shapes (circles, ovals, triangles, rectangles, square, heart, diamond, cross, star); and 3-dimensional shapes (sphere, cylinder, cube, cone, pyramid, rectangular prism, triangular prism).

- Find** real life examples of both 2-dimensional and 3-dimensional shapes in the environment (e.g., a ball as a sphere, a book as a rectangular prism).
- Identify** 2-dimensional and 3-dimensional shapes.
- Compare** shapes by attributes.

Match like (congruent and similar) shapes. (PK.G.1)

Group and sort 2-dimensional shapes by attributes: flat, corners (vertices), and sides. (PK.G.2, PK.G.3)

Match and sort 3-dimensional shapes by attributes: faces, edges, and vertices. (PK.G.4)

Compose and describe structures using 2- and 3-dimensional shapes. Descriptions may include shape attributes ("This building has a cube on top of a rectangular prism"), relative position ("The triangle is on top of the square"), etc. (PK.G.5)

Teaching Ideas/Resources

- This site is full of ideas as well as links to more ideas for teaching shapes, including books, crafts, games, and more: <https://www.pre-kpages.com/shapes-activities-preschoolers/>
- This site has many fun, engaging shape ideas. <https://taminglittlemonsters.com/shape-activities-for-kids/>
- This site has more hands-on shape activities: <https://www.fantasticfunandlearning.com/shape-activities.html>
- Shape Songs: <https://www.youtube.com/embed/lcl8uB2AWM0>
<https://www.youtube.com/watch?v=OEbRDtCAFdU>
<https://preschooleducation.com/songs/shape-songs-for-preschool/>
- [3D shape activity](#)
- [Some great 3D Shape ideas](#)



[Shape Detectives](#)



[Shape Magnets](#)



[Toothpick Shapes](#)



[Shape Books](#)



[Pattern Blocks](#)



[Geoboards](#)



[Geometric Shapes](#)



[Foldable 3D Shapes](#)



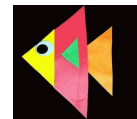
[3D Shape Sorting](#)



[2D vs. 3D](#)



[Wiki Stix](#)



[Pattern Blocks](#)