



PRE-KINDERGARTEN MATHEMATICS – Unit 3

Dear Parents,

Here is what your child is learning in Pre-Kindergarten, Unit 3 along with some specific ways you can help. Look for additional newsletters for upcoming units.

SHAPES, PATTERNS AND POSITIONAL LANGUAGE

Students need to:

- Name, recognize and use the attributes of plane geometric figures (i.e. describe shapes by number of sides and/or corners) Review comparing and describing of two-dimensional figures (circle, triangles, squares)
- Match triangles, circles, rectangles and squares
- Identify triangles, circles, rectangles and squares in the environment
- Compare three-dimensional figures with real world objects.
- Compare and describe attributes of three-dimensional figures such as cones, cubes, cylinders, and spheres
- Compose and describe structures using three-dimensional shapes. Descriptions may include shape attributes, relative position (above, below, over, under, on, next to, in front of, beside, behind, between, etc.)
- Represent and duplicate simple repeating patterns using no more than 2 different objects and different actions in the core of the pattern*
- Extend simple patterns of sound, movement, and concrete objects by predicting what comes next in a sequence of repeating elements*

*concepts which are introduced now and will be worked on throughout the year

KEY WORDS AND PHRASES

Shape Words			Pattern Words	Positional Words	
Circle	Faces	Sides	Copy	Above	In front of
Cone	Rectangle	Sphere	Core	Behind	Next to
Corners	Rolls	Square	Extend	Below	Over
Cube	Round	Stacks	Pattern	Beside	On
Cylinder	Shape	Straight	Repeat	Between	Under
		Triangle			

WAYS PARENTS CAN HELP

- Ask your child to identify different shapes in your house. For example, have your child locate an object that looks like a square, a circle, a triangle, etc. Have your child compare the objects and discuss the attributes. For example, a plate if traced around makes a circle and that is round, a can of soup is a cylinder and it can roll.
- Use positional words with your child and ask your child to use them too. (i.e. Put the fork beside the spoon. Put the napkin under the fork.
- Play "Simon Says" with your child. Use direction words such as: above, below, over, under, on, next to, beside, and behind. Allow your child to give you directions for what to do.
- Look for patterns and shapes in the world around you with your child.
- Have your child make a pattern by using their hands and body. First, have them put their hands on their head and then their shoulders and then their knees. Have them repeat these motions three times to make a pattern. Allow your child to make up a movement pattern for you to perform.

Free Apps



"Kids Doodle and Discover" combines tangram puzzles, coloring tools and a variety of interchangeable illustrations to create a full screen educational toy experience. (Apple only)



"Shapes Toddler-Preschool": Learn shapes and more with fun games, quizzes, flashcards, puzzles and three stories.



"Geoboard: Math Learning Center": create shapes on the geoboard. (Apple only)