

# Quarter 1 : What will Galway E.S. Fourth Graders Learn this quarter in Math?

## **Our Focus: Geometric Properties and Applications, Geometric Representations, Number Representation, & Statistics**

### **What will we learn?**

#### **Geometry**

- ◇ To identify, classify, and sketch acute, right, and obtuse angles
- ◇ To identify and describe the sides, angles, edges, vertices, and faces of solid figures
- ◇ To draw circles, triangles, and quadrilaterals given their dimensions
- ◇ To identify, draw, label, and describe points, lines, line segments, and rays

#### **Number Relationships and Computation**

- ◇ To recognize and apply place value patterns in numbers through the millions
- ◇ To read/write numbers using standard and expanded form
- ◇ To model and identify the place value of each digit in whole numbers

#### **Statistics**

- ◇ To organize, display, and analyze data using line plots and line graphs
- ◇ To determine and distinguish among mean, median, mode, and range

### **How will we learn these things?**

- ✓ By looking at types of angles in real world objects
- ✓ By making solid figures with given faces and vertices
- ✓ By reading and writing word names
- ✓ By comparing and ordering whole numbers
- ✓ By gathering and organizing data
- ✓ By analyzing and displaying data in an appropriate graph

### **What resources will we use?**

- 📖 Everyday Math Student Reference Book      📖 Brain Pop
- 📖 Math journal with vocabulary and examples
- 📖 Everyday Math Student Journals 1 & 2
- 📖 Manipulatives (Base-10 blocks, 3-D shapes, counters, etc.)
- 📖 Math tools (compass, ruler, protractor)
- 📖 Flip Charts (promethean board)

### **Why are we learning this?**

- To provide many foundational skills and help to build the thinking skills of logic, reasoning, analytical reasoning and problem solving
- To identify geometry in real-life: in art, architecture, engineering, robotics, land surveys, astronomy, sculptures, space, nature, sports, machines, cars and much more
- To determine the relationship between whole numbers
- To be able to interpret and understand various sets of real world data
  - i.e. Favorite Ice Cream Flavors, Sports Statistics, etc.

### **Vocabulary Words:**

- |   |  |
|---|--|
| <input type="checkbox"/> acute angle        | <input type="checkbox"/> mode                |
| <input type="checkbox"/> analyze            | <input type="checkbox"/> obtuse angle        |
| <input type="checkbox"/> central tendency   | <input type="checkbox"/> parallel            |
| <input type="checkbox"/> intersecting lines | <input type="checkbox"/> parentheses         |
| <input type="checkbox"/> line graph         | <input type="checkbox"/> perpendicular lines |
| <input type="checkbox"/> line plot          | <input type="checkbox"/> plane               |
| <input type="checkbox"/> line segment       | <input type="checkbox"/> radius              |
| <input type="checkbox"/> mean               | <input type="checkbox"/> range               |
| <input type="checkbox"/> median             | <input type="checkbox"/> rhombus             |
| <input type="checkbox"/> million            | <input type="checkbox"/> trapezoid           |

**Good mathematicians use strategies:**  
*Predict - Question - Clarify - Summarize*