

Course Description:

Mathematics 3 (2 of 2) explores operations such as multiplication and division, arithmetic patterns, geometry, fractions, perimeter, area, time, measurement, data, and finances. Topics include explaining arithmetic patterns using properties of operations, identifying types of geometric lines, composing and decomposing fractions, generating equivalent fractions, calculating the perimeter of polygons, and using multiplication to solve for area. Topics will also include reading and writing time to the nearest minute, measuring length in customary units, interpreting and representing data on a variety of graphs, understanding concepts in personal finance, and measuring liquid volume, mass, and temperature.

Course Objectives:

- Find number patterns using addition and multiplication.
- Describe relationships between numbers in patterns.
- Describe 2-D and 3-D shapes.
- Draw geometric shapes.
- Show fractions in different ways, including visual models.
- Write fractions in standard form.
- Make equivalent fractions.
- Compare fractions using symbols.
- Find perimeters and areas of polygons and composite shapes.
- Multiply numbers in different ways.
- Read and write time on analog and digital clocks.
- Measure length, volume, mass, weight, and temperature using the right tools and units.
- Interpret data shown in different ways.
- Make predictions and conclusions from data.
- Collect, organize, and show data in different ways.
- Know the concepts on earning, borrowing, and spending money.

Required Materials:

Required:

- crayons/markers/colored pencils
- paper
- pencils

Optional:

- ruler

Course Overview:

This course is made up of 18 units. Each unit has five lessons. Lessons are made of up activities that include the following types of learning:

- **Warm-Ups** allow for practice of skills or concepts taught in previous lessons. These are graded activities.
- **Direct Instructions** provide modeling of new skills and concepts. These are not graded activities.

- **Guided Practices** allow for practice of a skill with support. These are graded activities only on a completion basis.
- **Independent Practices** allow for practice of a skill without support. These are graded activities.
- **Checkpoints** test mastery of skills from lessons. These are graded activities.
- **Unit Reviews** allow for practice of skills prior to taking unit exams. These are not graded activities.
- **Unit Exams** test mastery of skills from the unit. These are graded activities.