

Grade 3 OMAAP Mathematics Performance Level Descriptors (PLDs)

Advanced: Students consistently demonstrate an understanding of the knowledge and skills expected of students at this grade. In addition to demonstrating an understanding and application of all modified skills at the Satisfactory performance level, students scoring at the Advanced level typically use a range of strategies to solve problems, regularly use various types of reasoning, connect one area or idea of mathematics to another, and communicate mathematical ideas.

Satisfactory: Students demonstrate a general understanding of the mathematics knowledge skills and processes expected of students at this grade. Students scoring at the Satisfactory level typically will:

- Describe, create, extend, and predict patterns in a variety of situations.
- Find unknowns in simple arithmetic problems.
- Recognize and apply the commutative and identity properties of multiplication.
- Model the concept of place value.
- Read, model, compare, and write whole numbers.
- Create and compare models of fractions.
- Estimate and find the sum or difference using a variety of strategies to solve application problems.
- Find the product of multiplication problems.
- Demonstrate fluency with basic multiplication facts.
- Estimate the product numbers by rounding to the nearest multiple of 10 to solve application problems.
- Identify and compare attributes of 2- and 3-dimensional shapes and develop vocabulary to describe the attributes.
- Analyze the effects of combining and subdividing 2- and 3-dimensional figures.
- Make and use coordinate systems to specify locations and shapes on a grid and to describe paths from one point to another point on a grid.
- Choose an appropriate measurement instrument and measure the length and weight of objects.
- Develop and use the concept of perimeter of different shapes to solve problems.
- Tell time on a digital and analog clock and solve simple addition problems with time.
- Read a thermometer and solve for temperature change.
- Determine the correct amount of change when a purchase is made.
- Read graphs and charts; identify the main idea, draw conclusions, make predictions based on the data.
- Construct bar graphs, frequency tables, line graphs (plots), and pictographs with labels and a title from a set of data.
- Describe the probability of chance events.

Limited Knowledge: Students demonstrate partial understanding of the mathematics knowledge and skills expected of students at this grade. Students scoring at the Limited knowledge level have difficulty and are inconsistent in applying the general knowledge and mathematical process skills at the Proficient level necessary to solve problems effectively and reason mathematically.

Unsatisfactory: Students do not demonstrate at least a Limited knowledge of the skills expected of students at this grade. Students scoring at the Unsatisfactory level should be given additional comprehensive mathematics instruction.