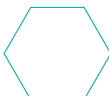


Seventh Grade Observation Profile for On-Going Assessment and End of the Year Evaluation

NAME _____

• Number & Operations 

1.01 Develop and use ratios, proportions, and percents to solve problems.

1.02 Develop fluency in addition, subtraction, multiplication, and division of rational numbers.

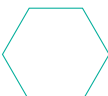
a) Analyze computational strategies.

b) Describe the effect of operations on size.

c) Estimate the results of computations.

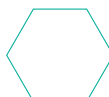
d) Judge the reasonableness of solutions.

1.03 Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil.

• Measurement 

2.01 Draw objects to scale and use scale drawings to solve problems.

2.02 Solve problems involving volume and surface area of cylinders, prisms, and composite shapes.

• Geometry 


3.01 Using three-dimensional figures:
 a) Identify, describe, and draw from various views (top, side, front, corner).

b) Build from various views.

c) Describe cross-sectional views.

3.02 Identify, define, and describe similar and congruent polygons with respect to angle measures, length of sides, and proportionality of sides.

3.03 Use scaling and proportional reasoning to solve problems related to similar and congruent polygons.

• Data Analysis & Probability 


4.01 Collect, organize, analyze, and display data (including box plots and histograms) to solve problems.

4.02 Calculate, use, and interpret the mean, median, mode, range, frequency distribution, and inter-quartile range for a set of data.

4.03 Describe how the mean, median, mode, range, frequency distribution, and inter-quartile range of a set of data affect its graph.

4.04 Identify outliers and determine their effect on the mean, median, mode, and range of a set of data.

4.05 Solve problems involving two or more sets of data using appropriate statistical measures.

• Algebra 

5.01 Identify, analyze, and create linear relations, sequences, and functions using symbols, graphs, tables, diagrams, and written descriptions.

5.02 Translate among different representations of algebraic expressions, equations and inequalities.

5.03 Use and evaluate algebraic expressions, linear equations or inequalities to solve problems.

5.04 Develop fluency in the use of formulas to solve problems.

Level IV (Exceeds expectations)

- consistent performance beyond grade level
- works independently
- understands advanced concepts
- applies strategies creatively
- analyzes and synthesizes
- shows confidence and initiative
- justifies and elaborates responses
- makes critical judgements
- makes applications and extensions beyond grade level; applies Level III competencies in more challenging situations

Level III (Proficient)

- exhibits consistent performance
- shows conceptual understanding
- applies strategies in most situations
- responds with appropriate answer or procedure
- completes tasks accurately
- needs minimal assistance
- exhibits fluency and applies learning
- shows some flexibility in thinking
- works with confidence
- recognizes cause and effect relationships
- applies, models, and explains concepts

Level II (Not yet proficient)

- exhibits inconsistent performance and misunderstandings at times
- shows some evidence of conceptual understanding
- has difficulty applying strategies or completing tasks in unfamiliar situations
- responds with appropriate answer or procedure sometimes
- requires teacher guidance frequently
- needs additional time, opportunities
- demonstrates some Level III competencies but is inconsistent

Level I (Limited performance)

- exhibits minimal performance
- shows very limited evidence of conceptual understanding and use of strategies
- responds with inappropriate answer and/or procedure frequently
- very often displays misunderstandings
- completes task appropriately and accurately infrequently
- needs assistance, guidance and modified instruction