


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

• Number & Operations 


1.01 Develop number sense for the real numbers.

a) Define and use irrational numbers.

b) Compare and order.


c) Use estimates of irrational numbers in appropriate situations.

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

• Measurement 

2.01 Determine the effect on perimeter, area or volume when one or more dimensions of two- and three-dimensional figures are changed.

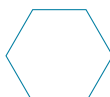
2.02 Apply and use concepts of indirect measurement.

• Geometry 

3.01 Represent problem situations with geometric models.

3.02 Apply geometric properties and relationships, including the Pythagorean theorem, to solve problems.


3.03 Identify, predict, and describe dilations in the coordinate plane.

• Data Analysis & Probability 

4.01 Collect, organize, analyze, and display data (including scatterplots) to solve problems.

4.02 Approximate a line of best fit for a given scatterplot; explain the meaning of the line as it relates to the problem and make predictions.

4.03 Identify misuses of statistical and numerical data.

• Algebra 

5.01 Develop an understanding of function.

a) Translate among verbal, tabular, graphic, and algebraic representations of functions.

b) Identify relations and functions as linear or nonlinear.

c) Find, identify, and interpret the slope (rate of change) and intercepts of a linear relation.

d) Interpret and compare properties of linear functions from tables, graphs, or equations.

5.02 Write an equation of a linear relationship given: two points, the slope and one point on the line, or the slope and y-intercept.

5.03 Solve problems using linear equations and inequalities; justify symbolically and graphically.

5.04 Solve equations using the inverse relationships of addition and subtraction, multiplication and division, squares and square roots, and cubes and cube roots.

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

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