Mathematics Grade 8
Patterns (P)

Outcome	1 - Beginning The student is having difficulty demonstrating an understanding of the concept.	2 – Approaching The student is developing an understanding of the concept.	3 – Meeting The student consistently demonstrates an understanding of the concept or has achieved the concept.	4- Exemplary The student independently demonstrates an in-depth understanding of the concept, and consistently applies this knowledge to new situations.
P8.1 **I can demonstrate understanding of linear relations concretely, pictorially (including graphs), physically, and symbolically. [CN, ME, PS, R, T, V]**	• I can analyze and describe information displayed on a table and a graph.	• I can model linear relations in **a few** ways, including tables, equations, **OR** graphs.	• I can model linear relations in **several** ways, including tables, equations, **AND** graphs.	• I can model a linear relations from real-life contexts several, including tables, equations, **AND** graphs (solid or dotted lines) **and explain my reasoning.**
	• **With help**, I can determine whether a table of values and a graph represent a linear relation.	• I can **plot points** from a table of values.	• I can **determine if an ordered pair satisfies a linear relation AND** find a **missing coordinate** using a table, equation, **AND** graph**.**	• I can determine if an ordered pair satisfies a linear relation and find a missing coordinate using a table, equation, **AND** graph and **explain my reasoning.**
Comments				

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P8.2 **I can model and solve problems using linear equations of the form:** ○ **ax = b** ○ **x/a = b, a ≠ 0** ○ **ax + b = c** ○ **x/a + b = c, a ≠ 0** ○ **a(x + b) = c** **concretely, pictorially, and symbolically, where a, b, and c are integers. [C, CN, PS, V]**	• **With help**, I can model an equation with objects **OR** pictures.	• I can **model** an equation with objects **OR** pictures, **AND** explain the preservation of equality.	• I can **model and solve** linear equations with objects, pictures, **AND** symbols.	• I can model and solve linear equations with objects, pictures, **AND** symbols **AND** explain my reasoning.
	• I can **solve one-step equations with integer coefficients.**	• I can **solve one-step equations with rational coefficients OR multistep equations with integer coefficients** symbolically.	• I can **solve one-step equations with rational coefficients AND multistep equations with integer coefficients** symbolically.	• I can solve multistep equations with integer **AND** rational coefficients symbolically, and explain restrictions on variables **(x/a + b = c, a ≠ 0).**
	• I can **identify important information in problems**.	• I can **represent situations with equations.**	• I can **identify and solve problems** that involve linear relations and explain my reasoning.	• I can **create, model, and solve problem**s involving linear equations.
Comments				