



Mathematics Grade 8 Patterns (P)				
Outcome	1 - Little Evidence With help, I understand parts of the simpler ideas and do a few of the simpler skills.	2 - Partial Evidence I understand the simpler ideas and can do the simpler skills. I am working on the more complex ideas and skills.	3 - Sufficient Evidence I understand the more complex ideas and can master the complex skills that are taught in class. I achieve the outcome.	4- Extensive Evidence I have a deep understanding of the complex ideas, and I can use the skills I have learned in situations that were not taught in class.
<b>P8.1</b> <b>I can demonstrate understanding of linear relations concretely, pictorially (including graphs), physically, and symbolically. [CN, ME, PS, R, T, V]</b>	<ul style="list-style-type: none"> <li>I can analyze and describe information displayed on a table and a graph.</li> </ul>	<ul style="list-style-type: none"> <li>I can model linear relations in <b>a few</b> ways, including tables, equations, <b>OR</b> graphs.</li> </ul>	<ul style="list-style-type: none"> <li>I can model linear relations in <b>several</b> ways, including tables, equations, <b>AND</b> graphs.</li> </ul>	<ul style="list-style-type: none"> <li>I can model a linear relations from real-life contexts several, including tables, equations, <b>AND</b> graphs (solid or dotted lines) <b>and explain my reasoning.</b></li> </ul>
	<ul style="list-style-type: none"> <li><b>With help</b>, I can determine whether a table of values and a graph represent a linear relation.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>plot points</b> from a table of values.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>determine if an ordered pair satisfies a linear relation AND</b> find a <b>missing coordinate</b> using a table, equation, <b>AND</b> graph.</li> </ul>	<ul style="list-style-type: none"> <li>I can determine if an ordered pair satisfies a linear relation and find a missing coordinate using a table, equation, <b>AND</b> graph and <b>explain my reasoning.</b></li> </ul>
Comments				



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Outcome	<b>1 - Little Evidence</b> With help, I understand parts of the simpler ideas and do a few of the simpler skills.	<b>2 - Partial Evidence</b> I understand the simpler ideas and can do the simpler skills. I am working on the more complex ideas and skills.	<b>3 - Sufficient Evidence</b> I understand the more complex ideas and can master the complex skills that are taught in class. I <b>achieve the outcome.</b>	<b>4- Extensive Evidence</b> I have a deep understanding of the complex ideas, and I can use the skills I have learned in situations that were not taught in class.
<b>P8.2</b> <b>I can model and solve problems using linear equations of the form:</b> <ul style="list-style-type: none"> <li>○ <math>ax = b</math></li> <li>○ <math>x/a = b, a \neq 0</math></li> <li>○ <math>ax + b = c</math></li> <li>○ <math>x/a + b = c, a \neq 0</math></li> <li>○ <math>a(x + b) = c</math></li> </ul> <b>concretely, pictorially, and symbolically, where a, b, and c are integers. [C, CN, PS, V]</b>	<ul style="list-style-type: none"> <li>• <b>With help,</b> I can model an equation with objects <b>OR</b> pictures.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>model</b> an equation with objects <b>OR</b> pictures, <b>AND</b> explain the preservation of equality.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>model and solve</b> linear equations with objects, pictures, <b>AND</b> symbols.</li> </ul>	<ul style="list-style-type: none"> <li>• I can model and solve linear equations with objects, pictures, <b>AND</b> symbols <b>AND</b> explain my reasoning.</li> </ul>
	<ul style="list-style-type: none"> <li>• I can <b>solve one-step equations with integer coefficients.</b></li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>solve one-step equations with rational coefficients OR multistep equations with integer coefficients</b> symbolically.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>solve one-step equations with rational coefficients AND multistep equations with integer coefficients</b> symbolically.</li> </ul>	<ul style="list-style-type: none"> <li>• I can solve multistep equations with integer <b>AND</b> rational coefficients symbolically, and explain restrictions on variables (<math>x/a + b = c, a \neq 0</math>).</li> </ul>
	<ul style="list-style-type: none"> <li>• I can <b>identify important information in problems.</b></li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>represent situations with equations.</b></li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>identify and solve problems</b> that involve linear relations and explain my reasoning.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>create, model, and solve problems</b> involving linear equations.</li> </ul>
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