### Essential Element, Linkage Levels, and Mini-Map

**Math: Grade 7**

**M.EE.7.G.5**

<table>
<thead>
<tr>
<th>Grade-Level Standard</th>
<th>DLM Essential Element</th>
<th>Linkage Levels</th>
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| **M.7.G.5** Use facts about supplementary, complementary, vertical, and adjacent angles in a multi-step problem to write and solve simple equations for an unknown angle in a figure | **M.EE.7.G.5** Recognize angles that are acute, obtuse, and right | **Initial Precursor**  
- Recognize attribute values  
**Distal Precursor**  
- Recognize line  
- Recognize point  
- Recognize ray  
**Proximal Precursor**  
- Recognize angle  
**Target**  
- Recognize obtuse angles  
- Recognize acute angles  
- Recognize right angles  
**Successor**  
- Compare angles to a right angle |

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<table>
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<th>How is the Initial Precursor related to the Target?</th>
<th>How is the Distal Precursor related to the Target?</th>
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<tr>
<td><strong>Initial Precursor:</strong> In order to recognize angles, students begin by learning to notice what is new. The educator draws the students’ attention to new objects or stimuli, labels them (e.g., “this is a circle, and it does not have any sides,” “this is a rectangle, and it has four sides”) and the student observes, feels, or otherwise interacts with the shapes. Educators encourage students to begin placing like objects together, drawing attention to the characteristics that make an item the same or different.</td>
<td><strong>Distal Precursor:</strong> At this level, educators provide students with specific vocabulary (line, point, and ray). These are all denoted by certain characteristics (a line has arrows on both ends; a point is a dot on a graph, a line, a line segment, or a number line; a ray is a line that has a well-defined starting point). Educators should take care to use the names “line,” “point,” and “ray” while defining and describing the attributes. While students do not need to say the names, they do need to learn their meaning. Educators should teach these attributes within the context of working with shapes, graphs, parallel lines, perpendicular lines, etc.</td>
</tr>
</tbody>
</table>

A diagram showing the relationship of nodes in the mini-map appears below.

*Key to map codes in upper right corner of node boxes:*

- **IP** Initial Precursor
- **SP** Supporting
- **DP** Distal Precursor
- **S** Successor
- **PP** Proximal Precursor
- **UN** Untested
- **T** Target
M.EE.7.G.5 Recognize angles that are acute, obtuse, and right.