### Grade-Level Standard

M.6.NS.5 Understand that positive and negative numbers are used together to describe quantities having opposite directions or values (e.g., temperature above/below zero, elevation above/below sea level, credits/debits, positive/negative electric charge); use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation;

M.6.NS.6 Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates;

M.6.NS.7 Understand ordering and absolute value of rational numbers;

M.6.NS.8 Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate.

### DLM Essential Element

M.EE.6.NS.5-8 Understand that positive and negative numbers are used together to describe quantities having opposite directions or values (e.g., temperature above/below zero).

### Linkage Levels

<table>
<thead>
<tr>
<th>Initial Precursor:</th>
<th>Distal Precursor:</th>
<th>Proximal Precursor:</th>
<th>Target:</th>
<th>Successor:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recognize separateness</td>
<td>Count all objects in a set or subset</td>
<td>Recognize opposite numbers</td>
<td>Use positive and negative numbers in real-world contexts</td>
<td>Relate the meaning of 0 to positive and negative numbers in real-world contexts</td>
</tr>
<tr>
<td>Recognize set</td>
<td>Recognize different number of</td>
<td>recognize opposite numbers</td>
<td>Explain inequalities from real-world contexts</td>
<td></td>
</tr>
<tr>
<td>Recognize same number of</td>
<td>Recognize fewer number of</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recognize more number of</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

© 2018 The Dynamic Learning Maps Essential Elements, linkage levels, and nodes are copyrighted by the University of Kansas Center for Research. Linkage levels and nodes are available for use by educators in DLM states but may not be used by commercial entities without written permission. Linkage level information and nodes may not be altered by anyone without express written permission from the University of Kansas Center for Research.

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.6.NS.5-8 Understand that positive and negative numbers are used together to describe quantities having opposite directions or values (e.g., temperature above/below zero)