# Looking for Evidence of Student Engagement in the Key Shifts

| Focus | Evidence |
|---|---|
| ☐ The learning goal(s) of the lesson supports grade-level standard(s). | |
| **Coherence** | |
| ☐ The lesson intentionally relates new concepts to students' prior skills and knowledge.<br>☐ Students set the foundation for future learning.<br>☐ Students access prior learning from major work in the grade in order to support new learning. | |
| **Rigor** | |
| **Conceptual Understanding**<br>☐ Students access concepts and ideas from a variety of perspectives.<br>☐ Students explain mathematical ideas behind a particular concept in a variety of ways.<br>☐ Students use examples and counterexamples to make and support conjectures applied to one problem to multiple situations.<br>☐ Students create and use a variety of models to analyze relationships.<br>☐ Students make use of patterns and structure to compose and decompose numbers, shapes, expressions, and equations.<br><br>**Procedural Skills and Fluency**<br>☐ Students select tools (e.g., physical objects, manipulatives, drawings, diagrams, algorithms, or strategies) that are relevant and useful for the task or problem.<br>☐ Students communicate thinking using appropriate vocabulary, symbols, and/or units in precise and accurate ways.<br>☐ Students look for patterns, generalizations, and shortcuts.<br>☐ Students are flexible in their use of procedures and skills to solve problems.<br><br>**Application**<br>☐ Students decontextualize and contextualize quantities in problem situations.<br>☐ Students plan and choose a solution pathway when applying their mathematical knowledge to different situations. | |

**Note:** To help educators look for evidence of grade-level-appropriate student engagement in mathematical tasks, these narrative descriptors are adapted from Illustrative Mathematics. (2014, February 12). *Standards for Mathematical Practice: Commentary and laborations for K–5 and 6-8*. Tucson, AZ. Available at http://commoncoretools.me/2014/02/12/k-5-elaborations-of-the-practice-standards