# A Correlation of the Common Core Standards for Mathematical Practice to Transition to Algebra’s Algebraic Habits of Mind and Units of Study

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<th>Common Core Standards for Mathematical Practice</th>
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| MP1: Make sense of problems and persevere in solving them. | Algebraic Habit of Mind: Puzzling and Persevering  
*This practice is addressed throughout TTA as students solve puzzles and word problems; TTA is designed to build student perseverance and willingness to try multiple approaches to problems.*  
*Best examples: Units 1, 5, 7* |
| MP2: Reason abstractly and quantitatively. |  
*This practice is addressed throughout TTA, particularly as students connect pictures, verbal descriptions, graphs, and equations. Mental Math exercises build students’ understanding of and flexibility in using quantitative relationships and properties of numbers.*  
*Best examples: Units 1, 5, 6, 8, 9* |
| MP3: Construct viable arguments and critique the reasoning of others. |  
*This practice is found throughout TTA in the Discuss and Write What You Think boxes and related discussions, in which students are asked to justify statements and discuss their justifications with classmates.*  
*Best examples: all units; Unit 7 most explicitly* |
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| **MP4**: Model with mathematics. | *This practice is found throughout TTA, as students explore using numbers, equations, graphs, and other tools to model situations.*  
*Best examples: Units 6 and 9* |
| **MP5**: Use appropriate tools strategically. | *Algebraic Habit of Mind: Using Tools Strategically*  
*This practice is found throughout TTA as students use tools including number lines, the coordinate plane, area models, drawings, and tables and graphs to make sense of algebraic situations.*  
*Best examples: Units 2, 3, 4, 6, 9, 10* |
| **MP6**: Attend to precision. | *Algebraic Habit of Mind: Communicating with Precision*  
*This practice is found throughout TTA as students learn mathematical language through Thinking Out Loud dialogues and practice using it in written and oral communication through Discuss and Write What You Think exercises.*  
*Best examples: all units, especially units 1, 5, 7* |
| **MP7**: Look for and make use of structure. | *Algebraic Habit of Mind: Seeking and Using Structure*  
*This practice is found throughout TTA; it is one of the most important aspects of the program. Through explorations and activities, students learn to look for patterns and structures and to use those structures to make sense of the mathematics rather than looking for arbitrary rules.*  
*Best examples: Units 4, 8, 10, 11* |
| **MP8**: Look for and express repeated reasoning. | *Algebraic Habit of Mind: Describing Repeated Reasoning*  
*This practice is found throughout TTA, especially in the later units. Students learn to develop general statements and solve equations through a “repeat and generalize” process, in which they use specific numbers to identify the steps used to solve a problem, and then use those steps to write a general algebraic result.*  
*Best examples: Units 1, 6, 7, 9* |

Unit 12 reviews and consolidates content from all 11 units and thus addresses all the practices.

To learn more, visit [www.TransitiontoAlgebra.com](http://www.TransitiontoAlgebra.com) or call 800.225.5800