

Math, Transitions to Algebra

MATH RTI SYLLABUS

Teacher: Ms. Janet Bertrand

Room #123

E-Mail: janet_bertrand@maranacook.com

Phone: 685-3128 ext. 1124

Response to Intervention (RTI) is a three-tiered process to help students become more successful in the areas of academics and/or behavior.

RTI allows schools to:

- Identify students at risk for not meeting grade level outcomes
- Monitor progress towards those outcomes
- Provide evidence-based interventions
- Adjust the intensity and nature of those interventions based on how a student responds to instruction and intervention

RTI is intended to be an instructional adjustment (intervention). It encompasses continuous reflection for delivery and content of instruction (planning), delivery of instruction (doing), checking student performance/data (checking) and adjustment.

Academic interventions are further broken down into mathematics and literacy instruction. Students meet in small groups or individually to discuss and learn strategies that will enable them to become more successful.

All students are assessed two times a year (fall and winter) using the NWEA (Northwest Evaluation Association). Students who demonstrate a pattern of falling below the 30thile or are struggling in the regular academic classroom are recommended for interventions. These students may be given a secondary assessment to further identify what a student needs for support.

Course Description: This class is for remediation of math. The students will use a combination of the Transitions to Algebra units and a computer program that works to help students fill individual gaps in the math standards.

Algebra is two things: a **convenient language** for expressing patterns and relationships you know and a **logical system** for figuring out things you don't yet know.

Transition to Algebra is a program designed to build students' algebraic habits of mind, key mathematical ways of thinking that bring focus and coherence to students' work with mathematics. These habits of mind central to TTA reflect the Standards for Mathematical Practice outlined in the Common Core Standards. The district curriculum guide for 6-8 math standards can be found by [clicking here.](#)

Transition to Algebra uses logic puzzles, problems, and explorations to help uniquely build students' mathematical ways of thinking. It invites students to experience the coherence and meaning of mathematics, perhaps for the first time.

This program helps develop five algebraic habits of mind.

1. **Puzzling and Persevering:** Puzzling is a critical part of the curriculum. This program helps students to become thoughtful, creative, and “out-of-the-box” thinkers.
2. **Seeking and Using Structure:** This program veers away from teaching algebra by memorizing steps in a particular order. It helps students see the structure and the logic of algebra instead, often leading to making calculations easier.

3. Using Tools Strategically: Appropriate use of tools requires some reasoning, this program supports students' learning of complex skills through the organizing tools and raises students up to a higher-level of thinking.

4. Describing Repeated Reasoning: This is the habit of looking for a pattern, and developing an expression to describe it. This program practices articulation of students' thinking and reasoning. It provides visual and kinesthetic activities for kids who generally fall through the gaps, it provides another way of looking at concepts.

5. Communication with Precision: This program helps develop mathematical language, and helps students to clearly express their knowledge through words, symbols, and diagrams.

Class Grading System

The TTA classes are the students primary math class and students will receive a grade in powerschool. Their grade is based on classwork, homework, and quizzes/tests. All grades are base on 100 points.

Classwork: Consists of multiples practice, notebook activities, Transitions to Algebra practice sheets, Scholastic Math activities, and math standards work.

Homework: Each week students are required to complete 6 lessons in their Dreambox account, lessons are assigned based on student's needs and level. These lessons are graded based on completion and accuracy. Any other homework will be if student did not finish classwork. Students will NEVER be assigned homework that we have not previously practiced in class together.

Quiz/Test: Students will be quized/tested on vocabulary words, math standards, and TTA lessons.

Positive Behavior Management Plan

Classroom expectations: “Give Me Five”

1. Be present and mindful at all times
2. Be prepared and on time
3. Be respectful
4. Be responsible
5. Be positive and demonstrate a growth mindset

Encouragement can be in the form of:

- verbal recognition
- punch cards (academic award)
- earned free exploration time
- certificates of achievement

Enforcement:

1. Verbal reminder/student responds with number of rule broken
2. Yellow card/student responds with number of rule broken
3. Take ten card/ student is sent to “Take ten” table to regroup and get themselves back on track and ready to learn. The ten minutes lost is made up during tutorial.
4. If student is spoken to a 4th time it results in being sent to the office, resulting in a write-up.