



# MATH/SCIENCE 7



Rutland Middle School

Ms. J. Makowetski

## Course Description (see attached for course learning outcomes and content)

Mathematics has become increasingly important in our technological society. Students now require the ability to communicate and reason, to solve problems, and to understand and use mathematics. To prepare the students, the math curriculum emphasizes and promotes the development of knowledge, skills and attitudes necessary to function within the workplace and within society.

The science program deals with the study of ecosystems, chemistry, and the study of the earth's crust, all of which include the processes and skills used to study and test scientific theory. The scientific method and inquiry will permeate each unit and incorporate all learning outcomes throughout the year.

Cross-curricular teaching will be a huge focus within our team. Various projects and assignments may involve all 4 core subjects and also may include one or more of the exploratory courses. This style of learning will help to motivate students and create more confidence within themselves. It will promote more effective and deeper learning and they will benefit from an improvement in their thinking and collaboration skills. There will be many major projects that require much time to complete and will challenge the students' creativity and their vision. A focus will be on their ability to provide clear explanations and details versus factual regurgitation.

## Learning Outcome and Core Competencies Assessment:

Throughout the term, students' progress will be reported using a learning outcomes expectations rubric. The students will become proficient in how it works and will be able to have a better understanding of their concept strengths and weaknesses in these courses. Students will do frequent self-assessments and reflect on their learning to ensure we, as a team, can accurately state their level of understanding of the learning outcomes and core competencies. Goal setting and ongoing self, peer and teacher feedback will help with their continual improvement and development. Students will be required to provide evidence of their learning in a portfolio which will be used in conjunction with other performance assessments to determine their term mark. A letter grade will be determined for the report card but not before this time.

Through tests, quizzes and assignments, the students will demonstrate their understanding of the learning outcomes. Letter grades will be determined according to their progression of understanding at the conclusion of the unit. The portfolio system will provide additional reflective evidence as to their knowledge level.

I hope by the end of the year you will love both math and science as much as I do. Try your hardest and be respectful; no one can expect more from you than that.



**Ms. Makowetski**

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Parent  
Initials