



## What is STEM?

**STEM** stands for *science, technology, engineering, and math*. STEM curriculum combines those subjects in order to teach “21st-century skills,” or tools to prepare students for the workplace of the “future.” Students will learn how to solve problems, find and use evidence, collaborate on projects, and think critically.

## The Curriculum

Hickory Creek’s STEM curriculum is through IMSA (Illinois Math and Science Academy). Their *Fusion* program is designed for intermediate and middle school students. The learning experiences focus on helping students “learn how to learn” and emphasize logic, mathematical thinking and experimental scientific thinking.



## Medieval STEM



*MEDIEVAL! STEM Through the Middle Ages* is an integrative curriculum. Economics and currency are explored through trade. Agriculture and travel uncover the importance of mathematics. Technology and application are exercised in alchemy, printing, and food-study units. You will see the progress of the STEM subjects throughout the units we study. By the end of your journey, you will gain an appreciation for the history behind the things we use everyday and recognize that necessity is the mother of invention.

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# Student Expectations

This class relies heavily upon your participation and collaboration. You are expected to be engaged, share ideas, and collaborate in teams. At the end of each inquiry based activity, you will complete “debrief questions” that will require elaboration upon observations and communication of ideas. That means you will have to explain what you see and what you think.

## Grades will be calculated as follows:

1. **Participation in activities: 50%** \*\*\*Note: Students will begin each unit with a set number of participation points (dependent upon the length of the unit). Students will lose points for non-participation.\*\*\*
2. **Debrief questions: 50%**

## Steps for Success in my Classroom

1. **Be on time.** Enter through room 1304 (not through the library), take out what you need and put the rest of your belongings in the cubby or on the shelf at your table.
2. **Be prepared.** Bring a writing utensil and a 3-ring binder to class everyday.
3. **Work hard.** This class is supposed to be a struggle so that you learn how to work with others and think critically and creatively. You have to be engaged in the activities in order for that to happen.
4. **Be respectful.** Respect me, your classmates, and yourself. No rude comments or behavior.
5. **Have fun!** This is not a traditional class. You get to do hands on activities for the majority of the quarter . Think outside of the box and have fun with it!

I am looking forward to a fantastic quarter of STEM!

Ms. Giammarco

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***Please detach and return this portion of the syllabus to Ms. Giammarco.***

I have reviewed the Student Expectations section of the STEM syllabus with my parent/guardian.

Student: \_\_\_\_\_

Parent/Guardian: \_\_\_\_\_ Date: \_\_\_\_\_

