



Concepts & Skills 2 – 2016-17

Instructor Information

Instructor: James Fields

Room: 118

Email: jfields@mcps.k12.mt.us

Phone: 406.728-2400 ext. 6046

Course Web Page: <http://www.mcpsmt.org/Page/11020>

Course Calendar:

<https://docs.google.com/spreadsheets/d/1SeaWvsGBp1H2q1O3cDYAxZ3W5ovyumq1dsLLr5x7fQ/edit>

Welcome to Concepts & Skills 2!

This course is designed to enhance algebra skills and introduce geometry skills. We will be exploring a broad range of mathematical topics outlined below in the learning outcomes. Students that successfully complete this course will be prepared for Geometry, Financial Algebra, and M111 Industrial Math.

This course meets the [Montana State Standards](#) as well as the [Common Core State Standards for Mathematics](#).

Learning Outcomes:

1. Solve and write equations in one and two variables.
2. Graph linear equations in two variables.
3. Understand slope as a rate of change.
4. Graph and interpret a best fit line given a data set.
5. Solve a system of equations and find break-even point.
6. Solve linear inequalities.
7. Understand rules of exponents.
8. Understand exponential growth, decay, and interest.
9. Measure distances and angles.
10. Convert units of measurement and rates.
11. Calculate area and volume.
12. Understand the Pythagorean Theorem and its applications.
13. Understand the properties of special triangles.
14. Understand right triangle trigonometry and its applications.

Textbook:

We will not be using a single textbook in this course, but will be including material from algebra and geometry books.

Required Materials:

You will need the following the first week of class:

- Notebook dedicated to math
- Pencils
- Folder
- Scientific Calculator (**cannot use cell phones on exams**)



Hellgate High School

Forward Thinking, High Achieving

Behavior Expectations:

In addition to what's outlined in the [student handbook](#) and the [Montana Behavior Initiative](#), I have 3 simple expectations in my class:

1. **Be respectful to everyone and everything in the classroom, including yourself.**
2. **Do not be disruptive to anyone else or yourself.**
3. **Focus on math in class and cooperate and discuss math with your classmates and myself.**

What does that mean?

- Be in class.
- Be on time.
- Work hard on math. Anyone can do math with work, but you need to work to succeed.
- Cell phones silent at all times and away while I or classmates are addressing the class.
- Listen while I or classmates are addressing the class without talking.
- Cell phones are to be used for appropriate class-relevant tasks only during work time.
- Music through earbuds or headphones is fine only during individual work time.

Class work and Homework:

The time you spend struggling with the class work and homework problems is the most important time you will spend on this course. Working hard on the homework and class work is how you will succeed in this class. Take it seriously and be generous with the time and energy that you put into it. You are allowed to work together with your classmates on the assignments, but be sure that when you are finished you understand the learning target on your own because **you will be tested individually on your understanding of each learning target.**

Grading:

Your grade will be comprised of class participation (30%), formative assessments (30%), which includes classwork and quizzes, and summative assessments (40%), which includes tests and projects. Formative and summative assessments will be scored by learning target according to the rubric on the following page.

Your class participation grade will be determined by your attendance and the work you do in class. Each day you come to class and work on math without being disruptive to others will be worth one point. If you don't show up, don't work, and/or are disruptive, you'll get a score of zero for the day. **In order to be successful in this class, it's critical that you are here and focus on math during class!**

Letter grades will be assigned according to the following scale:

- A: 87.5 – 100%
- B: 75 – 87.49%
- C: 62.5 – 74.99%
- D: 50 – 62.49%
- F: <50%



0 No Evidence	1 Below Standard	2 Nearing Standard	3 At Standard	4 Exceeds Standard
Blank	Missing or incorrect answer and little evidence of reasoning or application of mathematics to solve the problem.	Missing or incorrect answer but evidence of some reasoning or application of mathematics to solve the problem.	A correct answer with some evidence of reasoning or application of mathematics to solve the problem, OR an incorrect answer with substantial evidence of solid reasoning or application of mathematics to solve the problem.	A correct answer supported by substantial evidence of solid reasoning or application of mathematics to solve the problem.

Make-up Work:

If you miss class, it is **YOUR** responsibility to make the work up. If possible, check the course calendar and do the work while you are gone if you miss a day. Do not ask me what you missed when you come back! I will have everything posted on the course calendar, so check there.

Make-up exams will not take place during class time. You must make arrangements to take the exam with me before school, after school, during lunch, or during a study hall.