STEAM: Math Course 1 and Science Syllabus 2018-2019

**Course Description:**

**(course 1 Requirements)** In Grade 6, instruction focuses on five critical areas: (1) developing an understanding of multiplying and dividing fractions; (2) developing understanding of and applying operations with rational numbers; (3) working with expressions, linear equations and inequalities; (4) working with two- and three-dimensional shapes to solve problems involving area, surface area, and volume; and (5) developing an understanding of statistical variability.

**(Earth and Space Science Requirements)** This content area focuses on a wide variety of topics. Students will engage in the study of natural phenomenon and interactions to determine cyclical patterns, cause and effect relationships, and the flow of energy through various systems.

**(Technology and Engineering Requirements)** The Engineer Design Process (EDP) and Scientific Method will be applied by students during their quest to develop solutions for complex real-world problems.

**(Art Requirements)**Students will be required to create visual interpretations of work including blueprints and graphic design; even for those who can only draw stick figures.

**Course 1 Resources**

* Text: Holt McDougal Mathematics Course 1
* Engage NY
* Additional supplemental resources

**Course 1 Outline/Instructional Units:**

1. Problem Solving
2. Rational Numbers
3. Ratios
4. Percents
5. The Number System
6. GCF & Distribution
7. Expressions & Equations:
8. Inequalities
9. Geometry
10. Statistics

**Science Resources:**

* Google Classroom
* [lindsey-science.weebly.com](http://lindsey-science.weebly.com/)

## Stemscopes website link: ﻿[http://tinyurl.com/ohstemscopes﻿](http://www.tinyurl.com/ohstemscopes)

## ReadWorks: [www.readworks.org/student-authentication?url=%2Fstudent](https://www.readworks.org/student-authentication?url=%2Fstudent)

**Science Outline/Instructional Units:**

## Unit 1 Space science: The Universe, Formation of Galaxies, Formation of the Solar System, Patterns of Motion, Earth, Sun, Moon System

## Unit 2 Geological Processes: Geologic History of Earth, Seafloor Spreading, Plate Tectonics, Weathering and Erosion, Geoscience Processes, Natural Hazard Prediction

## Unit 3 Weather and Climate: Weather and Climate/Prediction, Water Cycle, Water in the Atmosphere, Ocean Currents/Influence on Weather and Climate

## Unit 4 Natural Resources and Environmental Impact: Human activities, Human Impact, Consumption of natural Resources, Changes to Earth’s Environment, Human dependence or Natural resources

**Grading**

Grades will be based on a percentage. This percentage will include completion of individual work, group work, and assessments. The grading scale will be as follows:

|  |  |  |
| --- | --- | --- |
| Grade | High | Low |
| A | 100% | 92.50% |
| A- | 92.49% | 89.50% |
| B+ | 88.49% | 87.50% |
| B | 87.49% | 82.50% |
| B- | 82.49% | 79.50% |
| C+ | 79.49% | 77.50% |
| C | 77.49% | 72.50% |
| C- | 72.49% | 69.50% |
| D+ | 69.49% | 67.50% |
| D | 67.49% | 59.50% |

**Grade Reporting**

Students and parents can check grades at any time on-line through Family Access (contact the Main Office for help accessing Family Access).

* Please note a star indicates a grade that has not yet been entered; therefore, it does not count against the student’s grade.
* Progress reports will be available every quarter (9 weeks) through Family Access. If you do not have on-line access, contact the Main Office for a hard copy of the progress report.
* Report cards (official grades) are produced at the end of each semester (18 weeks), and are available through Family Access. If you do not have on-line access, contact the Main Office for a hard copy of the progress report.
* A link for Family Access can be found on the school’s web page.

**Practice:** Practice is essential for mastery of the material in this course and will be counted under the Skills for Success category. Just like sports or band which requires practice time to be prepared for the game or concert, mathematics requires practice to perform proficiently. Students are expected to complete practice tasks to reinforce skills and concepts learned in class. Students must have completed at least 80% of their practice/homework from a unit before the original test date in order to have the opportunity to redo. Consistent failure to complete practice problems will result in parent contact, meetings or after school study help.

**Late Work & Re-Do Policy**

The theory behind incorporating a late work and redo policy is for students to meet the required grade level standards. We not only allow, but encourage students to spend time reviewing a particular skill on which they are not proficient.

As a department and a school, we wish to ensure that all students complete all work required of them for those standards to be met. Please understand, however, that the following policies are upheld *at the discretion of the teacher*.

**\*Late Work:**

* Students have until the day before the end of unit test to show they have completed any missing or incomplete practice problems.
* Projects not handed in due to an excused absence will be accepted upon return without a penalty.

**\*Re-Do/Re-Takes:**

* In order to be eligible for a redo, students must have completed at least 80% of their practice/homework from that unit *before* the original test date.
* Students must fill out a redo form and complete extra practice *before* scheduling time for a redo. Students must make the initiative to schedule re-dos/re-takes with the teacher at the teacher’s convenience.
* Re-dos/re-takes must be completed within 2 weeks of the scores being entered in Family Access.

**Math Book Report**

Students are required to read one book about math per quarter and write a one paragraph book report about what they learned. They can read this book any time during the quarter and the book report will be due the second-to-last week of each quarter. Our school library has an excellent selection of short books on mathematics.

**Extra Help**

Students are encouraged to take advantage of extra help opportunities. Check with individual teachers for their extra help hours.

Holt McDougal has an online textbook as well as video tutorials, extra practice, and some worked out solutions for each topic. To access this resource go to: <http://my.hrw.com> and log in. **Username**: panthers73 **Password:** panthers

Login information is also on the OHIS website.

Please initial the following items to ensure you and your child know and understand the policies listed above. Sign and date the bottom and return to school no later than Tuesday: September 11th, 2018.

I have read and understand the following information regarding my child. \_\_\_\_\_\_\_\_\_

I have accessed my child’s digital learning resources listed above. \_\_\_\_\_\_\_\_\_

My child understands the late policy and redo policy for this class. \_\_\_\_\_\_\_\_\_

I understand that in the event that I need to get a hold of you it may

take up to 24 hours to respond and this does not include weekends. \_\_\_\_\_\_\_\_\_\_

I understand that, my child’s success in this class relies on a combination

of detection by my child \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, myself\_\_\_\_\_\_\_\_\_\_\_\_\_­­­­\_\_\_\_

(as a parent/guardian), my school (including teachers and staff), and my

teacher Mrs. Lindsey as an educator in STEM.

If you have any questions, please feel free to contact me. Now, let’s get ready for a great year!

Respectfully,

Mrs. Lindsey BSc/BEd

[jlindsey@ohsd.net](mailto:jlindsey@ohsd.net)

1(360) 279-5326 classroom (only answer during business hours)

1(360) 279-5300 office

Parent’s signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student’s signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*If I had a lever long enough and a fulcrum from which to place it, I could lift the world…Aristotle*