

6th Grade Math/Science Class Syllabus

W.T. Eich Middle School

2021-2022

TEACHER INFORMATION: Ms. Woolsey 916-771-1770 x 23213 kwoolsey@rcsdk8.org

Welcome to the 2021-2022 school year with the Eich Wildcats! It's hard to believe that summer has passed so quickly. It is my pleasure to have you in class this year. This is going to be a fun, exciting, and challenging year. I am looking forward to a year packed with many dynamic and rewarding learning experiences.

COURSE CURRICULUM:

MATH -

We will be using Math Links 6th grade Math curriculum as well as Common Core supplemental materials. Math Links is a standards-based curriculum that is dedicated to providing the instruction and skills students need in order to meet California's high standards. Additionally, we will be engaging in higher level thinking activities and assessments throughout the year to address Common Core Mathematical Practices and meet the IB MYP Criteria. The course is designed to cover all of the key standards and cognitive demands that students need to master in order to be successful next year in Common Core Math 7.

The Common Core Math Standards we will cover are:

- Number Sense
- Equations and Expressions
- Ratios and Proportions
- Geometry
- Statistics

There are four MYP IB Objectives for mathematics that encompass the factual, conceptual, procedural, and metacognitive dimensions of knowledge. These are as follows:

Objective A: Knowing and understanding

- i. Select appropriate mathematics when solving problems in both familiar and unfamiliar situations
- ii. Apply the selected mathematics successfully when solving problems
- iii. Solve problems correctly in a variety of contexts

Objective B: Investigating patterns

- i. Select and apply mathematical problems-solving techniques to discover complex patterns
- ii. Describe patterns as general rules consistent with findings
- iii. Prove, or verify and justify, general rules

Objective C: Communicating

- i. Use appropriate mathematical language (notation, symbols and terminology) both in oral and written explanations
- ii. Use appropriate forms of mathematical representation to present information
- iii. Move between different forms of mathematical representation
- iv. Communicate complete, coherent and concise mathematical lines of reasoning
- v. Organize information using a logical structure

Objective D: Applying mathematics in real-life contexts

- i. Identify relevant elements of authentic real-life situations
- ii. Select appropriate mathematical strategies when solving authentic real-life situations
- iii. Apply the selected mathematical strategies successfully to reach a solution
- iv. Justify the degree of accuracy of a solution
- v. Justify whether a solution makes sense in the context of the authentic real-life situation

SCIENCE/DESIGN -

We will be teaching integrated components of Physical, Earth, and Life Science in accordance with the Next Generation Science Standards (NGSS).

Physical Science

- Energy

Earth Science

- Weather and Climate
- Earth's Systems
- Human Impacts

Life Science

- Structure, Function and Information Processing
- Growth, Development, and Reproduction of Organisms

Engineering Design

- Engineering Design

There are four MYP IB Objectives for science that encompass the factual, conceptual, procedural, and metacognitive dimensions of knowledge. These are as follows:

Objective A: Knowing and Understanding

- i. Explain scientific knowledge
- ii. Apply scientific knowledge and understanding to solve problems set in familiar and unfamiliar situations
- iii. Analyze and evaluate information to make scientifically supported judgments

Objective B: Inquiring and designing

- i. Explain a problem or question to be tested by a scientific investigation
- ii. Formulate a testable hypothesis and explain it using scientific reasoning
- iii. Explain how to manipulate the variables, and explain how data will be collected
- iv. Design scientific investigations

Objective C: Processing and evaluating

- i. Present collected and transformed data
- ii. Interpret data and explain results using scientific reasoning
- iii. Evaluate the validity of a hypothesis based on the outcome of the scientific investigation
- iv. Evaluate the validity of the method
- v. Explain improvements or extensions to the method

Objective D: Reflecting on the impacts of science

- i. Explain the ways in which science is applied and used to address a specific problem or issue
- ii. Discuss and evaluate the various implications of the use of science and its application in solving a specific problem or issue
- iii. Apply scientific language effectively
- iv. Document the work of others and sources of information used

ASSIGNMENTS-HOMEWORK/CLASSWORK POLICY:

1. All class assignments/links/homework will be listed on the Math or Science **Week At a Glance** (WAG). This is in google slides.
2. Students must keep track of their assignments by filling out the **Homework Check Off Sheet** daily. (All homework must be done and turned in to be eligible to retake a summative assessment.)
3. All assignments will be attached to the Homework Check Off Sheet, in the Math toolkit, or in a Math packet for that Unit.
4. Expect Homework for Math on a daily basis (Monday thru Thursday).
5. Homework will be checked/evaluated daily and collected at the end of each Unit.
6. Homework will count towards the Learning Behaviors grades and must be completed in order to retake summative assessments. It is very important that all assignments are done thoroughly and completely, because all tests will reflect standards covered on the assignments.
7. Assignments and tests must be done in **pencil**.
8. Toolkits and MathLinks Packets will be needed in class everyday.
9. Toolkits may periodically be checked and given a Learning Behavior grade. Must be completed and on time for credit.

GRADING POLICY:

Summative Grade: Tests, finals, benchmarks, and projects. Graded on rubrics.

Learning Behaviors Grade: Engagement and Work Completion (ie. Homework, classwork, corrections, quizzes, Toolkit checks, etc.)

**** You can check your child's progress in OTUS. It is recommended that you check your child's grades weekly.***

RETAKE POLICY:

Students will have opportunities to retake unit tests provided they have turned in a quality homework packet with a completed Homework Check Off Sheet and completed original test corrections for that specific unit prior to the retake. Retakes must be completed within the same trimester as the specific unit is taught.

BEHAVIOR:

Students are expected to follow all school rules - The Wildcat Way (Safe, Respectful, Responsible). This includes coming to class on time, being in your seat by the time the bell rings, and being fully prepared for class. In addition, students are expected to:

- Show respect to others, which includes listening quietly while others are speaking.
- Use appropriate language.
- Be prepared for learning (Have all supplies out and ready each day).
- Participate appropriately during group tasks.
- Respect other people's property.
- No gum, food, or drinks other than water.

CatPaw Cash and other rewards can be earned for excellent behavior and exceeding student expectations.

Failure to follow the above behavior expectations will result in appropriate consequences for the infraction; including warnings, classroom consequences, lunch detentions, and/or office citations/referrals.

ABSENCES:

If a student is absent, it is his/her responsibility to check the WAGs for missed assignment(s), update the Homework Check Off Sheet and to turn them in for credit. Students have until the end of the unit to complete ALL assignments. Homework Check Off Sheets with completed work will be collected before the end of unit assessment. Keep in mind that homework assignments are students' opportunity to practice the math skills that are taught in class.

COMMUNICATION:

Parents and guardians are valued members of the education team. We need to work as a team in order to provide the students with successful experiences in mathematics and science. Thank you for supporting your child's learning in order to make this a successful and positive year at Eich. If you have questions please feel free to contact me at any time via email (kwoolsey@rcsdk8.org) or telephone.

Students: Be sure to see me if you feel like you are falling behind or have a question with **anything**. It is very important that we have good communication and you seek help the moment you need it.

Sincerely,

Ms. Woolsey Room E13

MOVIES:

From time to time we will be watching PG movies. In order to show PG movies in the classroom, I need to have signed permission for your student.

Please check one:

____ My child **has** my permission to watch PG movies at school.

____ My child **does not have** permission to watch PG movies.

Please sign below acknowledging that you have read and understand Ms. Woolsey's Math and Science syllabus.

Student Name: _____ Periods: _____

Student Signature: _____ Date: _____

Parent Name: _____

Parent Signature: _____ Date: _____

Is there anything you would like to share with me about your child?

SUPPLY LIST:

- **TWO** 8 $\frac{1}{2}$ x 11 Single Subject Spiral Notebook
(Recommend Five Star or equivalent with a **pocket** in the front)
- Glue Sticks (keep supplied all year)
- **PENCILS!** Work done in ink will not be accepted
- Highlighters - two colors
- Dry erase markers
- Dry erase eraser (sock or felt works well)
- Ruler
- Colored pencils
- *Optional: Box of facial tissue
- *Optional: Scissors
- *Optional: Simple Calculator