School: Crook County Middle School

Course Title: 6th grade Science

Instructor's Name: Julia Neuhaus/ Hayden Bates

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Trimester I _X__ II _X__ III _X

Course Description:
Students will experience and investigate Physical, Earth, and Space Sciences. This class will use schoolwide AVID strategies and techniques. There will be a strong emphasis on vocabulary development, textbook comprehension, critical thinking, and scientific exploration within science methods and inquiries.

Next Generation Science Standards
Earth & Space Science

PS3-1,2 Show, model, and describe relationships of kinetic energy to mass on objects and show how distance changes different amounts of potential energy.

PS2-5 Investigate and evaluate how fields exist between object exerting forces on each Other within magnetic and electrical fields.

ES1-1 Develop and use a model of the Earth-sun-moon system to describe the cyclic patterns of lunar phases, eclipses of the sun and moon, and seasons.

ES1-2 Develop and use a model to describe the role of gravity in the motions within galaxies and the solar system.

ES2-5 Collect data and use evidence to understand complex weather conditions.

ES2-4 Develop a model to describe the cycling of water through Earth's systems driven by energy from the sun and the force of gravity

ES2-3 Analyze and interpret data on the distribution of fossils and rocks, continental shapes, and seafloor structures to provide evidence of the past plate motions.

ES2-6 Develop and use models to describe how unequal heating and earth's rotation explains various climates.

ES3-5 Create questions of evidence that explains factors that have caused the rise in global temperatures over the past century.

ES 3-3 Apply Scientific principles to design a method for monitoring and minimizing a human impact on the environment

Scientific Inquiry:

Scientific inquiry is the investigation of the natural world based on observations and science principles that includes proposing questions or hypotheses and designing procedures for questioning, collecting, analyzing, and interpreting multiple forms of accurate and relevant data to produce justifiable evidence-based explanations and new explorations.

Based on observations and science principles, propose questions or hypotheses that can be examined through scientific investigation. Design and conduct a scientific investigation that uses appropriate tools, techniques, independent and dependent variables, and controls to collect relevant data. Organize, display, and analyze relevant data, construct an evidence-based explanation of the results of a scientific investigation, and communicate the conclusions including possible sources of error. Suggest new investigations based on analysis of results. Explain how scientific explanations and theories evolve as new information becomes available.

Science and Engineering Practices:

Develop and Use Models
Construct, Explain and Design Solutions
Analyze and Interpret Data
Engage in Argument from Evidence
Plan and Carry Out Investigation

Materials:

- Texts: Stemscopes (NGSS)
- Film, Videos/ Other Electronic Media: Google Classroom. We will require parental consent for any material rated anything above G. We will be using google apps for classroom activities.
- Others (Articles): Outdoor School 6th grade program

Goals

By the end of the 2021-22 school year. 100% of students will conditionally meet, or exceed subject level learning growth goals in Science as measured improvement score on Data Based Question(s) and Content science assessment.

Grading Scale:

Standard grading scale will be applied.
90-100 % = A
80-89 % = B
70-79 % = C
60-69 % = D
59- 0 % = F

Makeup Policy

Makeup policy follows CCMS makeup policy.

Extra Credit Policy

Extra credit may occasionally be available, but students will not be able to use extra credit to replace missing assignments or tests.