

# 6<sup>th</sup> Grade Science

## Crook County Middle School Syllabus

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**Semester I :**

- Metrics (Mass)
- Forms of Energy
- Electric vs. Magnetic Forces
- Earth, Sun and Moon Systems
- Space
- Geology of Earth
- Geoscience Processes
- Earth Materials

**Semester II :**

- Predicting Weather and The Water Cycle
- Influences of Weather and Climate
- Oceans Currents
- Human Impact of the Environment
- Human Dependence on Natural Resources
- Renewable Energy
- Forest Education
- Outdoor School Prep

### **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.

## **LEARNING STANDARDS (NGSS)**

### **MS-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.

### **MS-PS2-5**

Investigate and evaluate how fields exist between object exerting forces on each other within magnetic and electrical fields.

### **MS-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.

### **MS-ES1-2**

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

### **MS-ES2-5**

Collect data and use evidence to understand complex weather conditions.

### **MS-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

### **MS-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.

### **MS-ES2-6**

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

### **MS-ES3-5**

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

### **MS-ES 3-3**

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

## **MATERIALS**

**Text: STEMscopes,**

**Student Chrome Computers**

**Film, Videos/ Other Electronic Media**

**Others (Articles): Outdoor School 6<sup>th</sup> grade program**

## **CLASSROOM STRATEGIES**

- SMART-specific, measurable, achievable, relevant, timeline
- Reflection of Specific Critical Content Mastery)
- School Wide AVID (Advancement Via Individual Determination)
- WICOR (Writing.. Inquiry... Collaboration... Organization...Reading) model.

## **GOALS**

By the end of the school year, (June 2021)

100% of students will meet or exceed subject level learning standards in 6<sup>th</sup> grade Science (content area) as measured by a score of 90% or better on the all student learning goals, quizzes, test, mid year assessments, final assessments, short cycle assessment.

## **GRADES**

### **Citizenship**

50% will be from in-class behavior and participation.

50% will be from:

- Openers / Warm-ups
- Daily work / Homework/ Interactive Notebook
- Practicing new skills
- Effort on labs or activities
- Signed printouts

## **Academic**

Grades may be comprised of any of the following:

Lab Work (assessment)  
CER - Claim, Evidence, Reason  
Projects  
Presentations  
Quizzes  
Assessments

## **Grading Scale**

A = 100 - 90 %  
B = 89 - 80 %  
C = 79 - 70 %  
D = 69 - 60 %  
F = 59 % or below

## **Makeup Policy**

Students have one day for each day absent to turn in makeup work for full credit. Late work will be accepted for reduced points.

## **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.