



## Westgate Community School

# 6<sup>th</sup> Grade Science Overview 2017-2018

In this document, you will find an overview of all the units that will be covered in 6<sup>th</sup> grade science. All the units and their content has been taken from the Colorado model content standards for 6<sup>th</sup> grade science. First, you will find a general time line for the units for the year. You will then find a brief bulleted description of the unit. If you have any questions regarding the outlined curriculum, please contact Ellyse Colson at [Ellyse.colson@westgateschool.org](mailto:Ellyse.colson@westgateschool.org).

### Science Year-long Outlook:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
Unit: Scientific Method Unit: Earth	Unit: Ecosystems	Unit: Physics	Unit: Introduction to Chemistry Unit: Advanced States of Matter

### Unit: Scientific Method

- Review process
- developing, communicating, and justifying an evidence-based explanation
- interpreting and analyzing data
- researching data and information

### Unit: Earth

- Water systems
- Natural resources- renewable and non-renewable
- Water cycle- oceans, glaciers, rivers, ground water, and the atmosphere
- Constructive and destructive forces

### Unit: Environment- human and natural

- Environmental changes affect survival of individual organisms, populations, and entire species
- Dependence- Earth's natural resources provide for human physical needs



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### Unit: Ecosystems

- Food web
- How organisms interact to create an ecosystem
- Using data, determine changes in environments effects on a population
- Model a balanced ecosystem
- Flow of energy through an ecosystem with a food web
- Compare food web with flow of cycling matter in ecosystems

### Unit: Physics

- Define, use, and calculate- Mass, Weight, Volume, Density
- Relationships among mass, weight, volume, and density
- Gravity's effects- making predictions about how changes to acceleration affect weight
- Measuring mass and volume to figure out density

### Unit: Introduction to Chemistry

- Atoms
- molecules
- Unique properties of elements
- Particle model- model of matter
- Characteristics of different substances
- Similarities and differences between elements and compounds

### Unit: Advanced States of Matter

- Physical characteristics and changes of solid, liquid, gas
- Arrangement and motion of molecules in a substance determine its state
- Relationship between state and temperature