5th Grade NGSS Integrated Course Sequence

Molecules to Earth and Motion and Stability Earth's Place in the Universe Matter Ecosystems Earth's Systems Energy Organisms Human Activity

the gravitational force exerted by Earth on objects is directed down.

5-PS2-1, Support an argument that | | 5-ESS1-1, Support an argument that differences in the apparent brightness of the sun compared to other stars is due to their relative distances from Earth.

> 5-ESS1-2. Represent data in graphical displays to reveal patterns of daily changes in length and direction of shadows, day and night, and the seasonal appearance of some stars in the night sky.

5-PS1-1. Develop a model to describe that matter is made of particles too small to be seen.

5-PS1-2. Measure and graph quantities to provide evidence that regardless of the type of change that occurs when heating, cooling, or mixing substances, the total weight of matter is conserved.

5-PS1-3. Make observations and measurements to identify materials. based on their properties.

S-PS1-4. Conduct an investigation to determine whether the mixing of

two or more substances results in new substances.

5-LS1-1. Support an argument that plants get the materials they need for growth chiefly from air and water.

to describe that energy in animals' food fused for body repair, growth, motion, and to maintain body warmth) was once energy from the sun.

5-PS3-1, Use models | 5-LS2-1, Develop a model

to describe the

environment

movement of matter

among plants, animals,

decomposers, and the



5-ESS2-2, Describe and graph the amounts and percentages of water and | 5-ESS3-1, Obtain and

combine information about ways individual communities use science ideas to protect the Earth's resources and environment.

Gravity

Mosa Mack Units

Extension Units

















distribution of water on Earth.

fresh water in various reservoirs to provide evidence about the

5-ESS2-1. Develop a model using an example to describe ways the

geosphere, biosphere, hydrosphere, and/or atmosphere interact.





*Climate Change Lesson Extension

Scientific Method

Engineering Design Standards











3-5-ETS1-3. Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved