



5th Grade Science- STEMscopes

Prairie Grove CSD 46

Bundle 1: Matter and Energy Flow in an Ecosystem

Driving Question: How can a self-sustaining garden be designed that would provide enough food for the community?

Scope:	NGSS Priority Standards- <i>Prioritized</i>
Energy Transfer	LS2.A 3 A healthy ecosystem is one in which multiple species of different types are each able to meet their needs in a relatively stable web of life. Newly introduced species can damage the balance of an ecosystem.
Matter and Energy in Plants	
Food Webs	
Matter Cycles	
Ecosystems	

Bundle 3: Human Impact on the Earth's System

Driving Question: What role does water play on Earth, and what steps can be taken to conserve it?

Scope:	NGSS Priority Standards- <i>Prioritized</i>
Earth's Systems Interactions	ESS 3. C Human Impacts on Earth Systems- Human activities in agriculture, industry, and everyday life have had major effects on the land, vegetation, streams, ocean, air, and even outer space. But individuals and communities are doing things to help protect Earth's resources and environments.
Water Sources	
Reducing Human Impact	

Bundle 4: Interactions in Matter

Driving Question: How can we use the properties of matter to clean up water after a natural disaster?

Scope:**NGSS Priority Standards-*Prioritized***

Matter is
Everywhere

Properties of
Matter

Changes to Matter

Mixtures

PS 1.A Matter of any type can be subdivided into particles that are too small to see, but even then the matter still exists and can be detected by other means. A model showing that gases are made from matter particles that are too small to see and are moving freely around in space can explain many observations, including the inflation and shape of a balloon and the effects of air on larger particles or objects.

Bundle 2: Observing Our Sky?

Driving question: How can a planetarium be designed in which people learn about space and the effects of gravity, rotation, and orbiting?

Scope:**NGSS Priority Standards-*Prioritized***

Earth's Rotation

Observing the
Stars

Objects in the Sky

Gravity

ESS 1.B Support and argument that differences in the apparent brightness of the sun compared to other stars is due to their relative distances from the Earth.