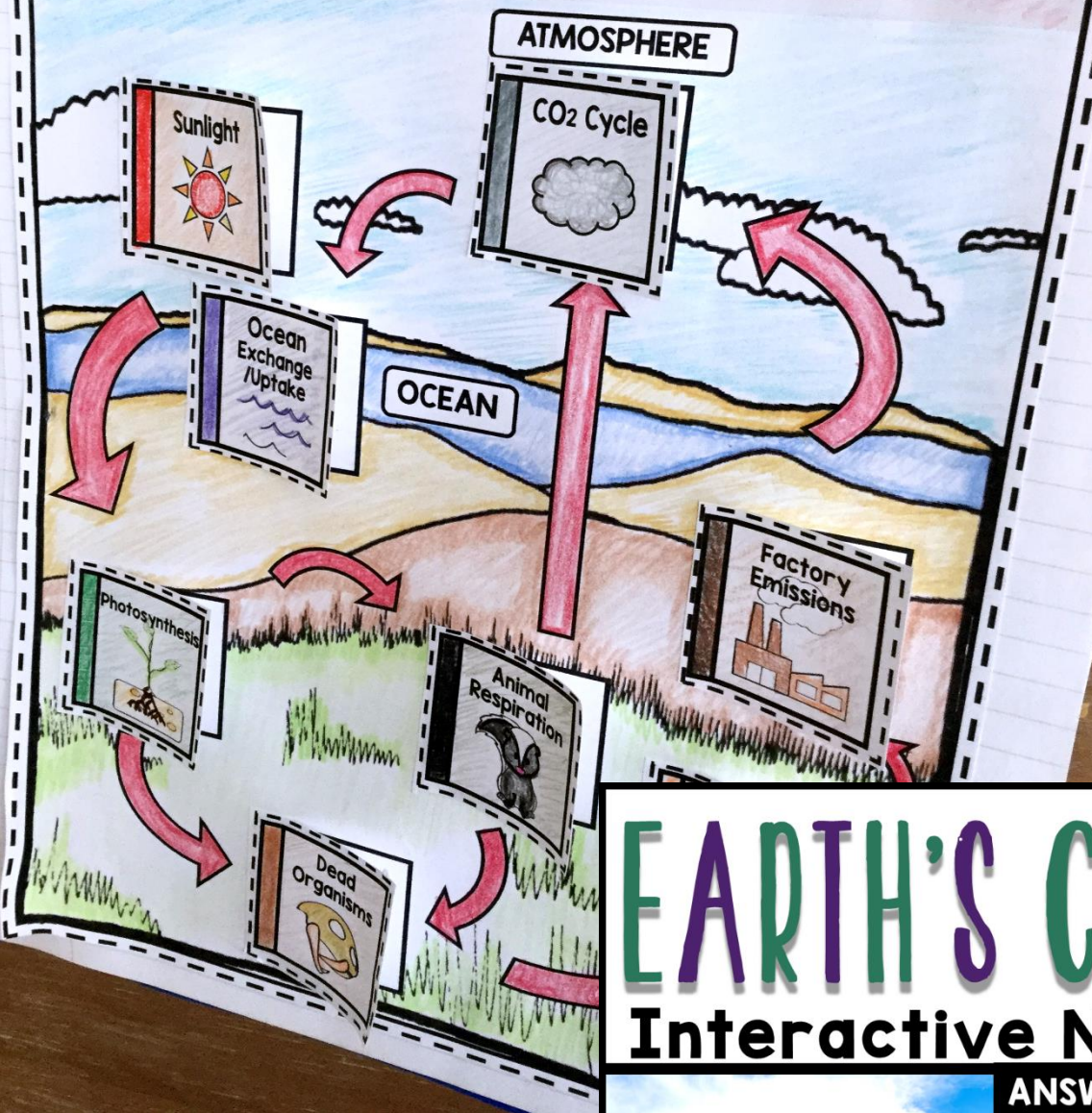


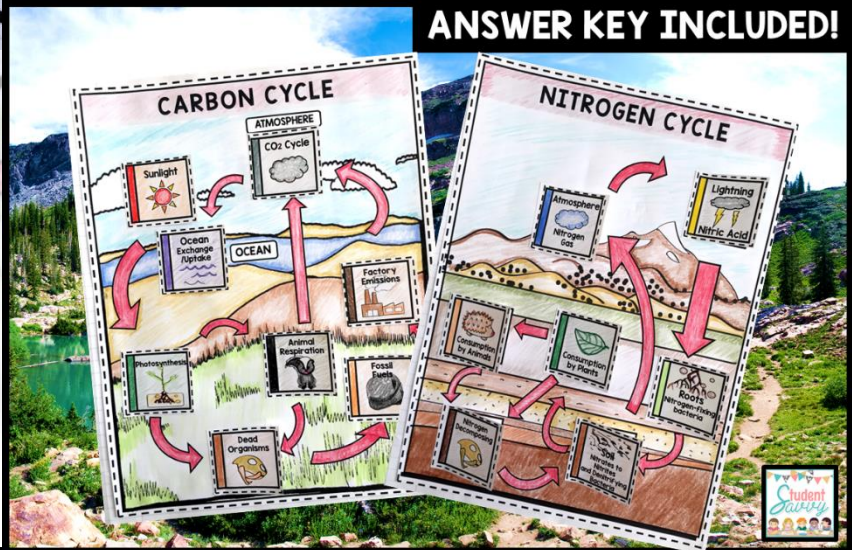
CARBON CYCLE



EARTH'S CYCLES

Interactive Notebook

ANSWER KEY INCLUDED!



Earth's Cycles Unit

Interactive Science Notebook



Thank you for downloading!

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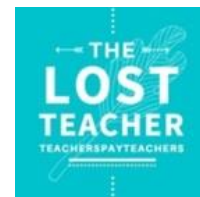
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EARTH SCIENCE

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Earth Science Complete Curriculum

EARTH SCIENCE
COMPLETE CURRICULUM

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ROCK CYCLE • MINERALS • PLATE TECTONICS • VOLCANOES • WEATHER
ECOSYSTEMS • EARTH'S CYCLES • PHOTOSYNTHESIS • BIOMES • ENERGY

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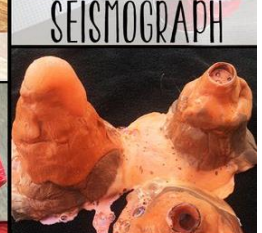
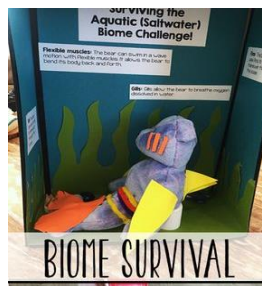
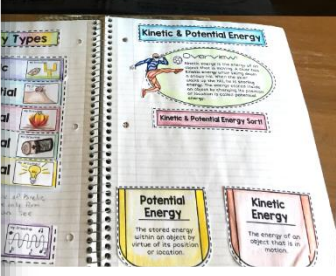
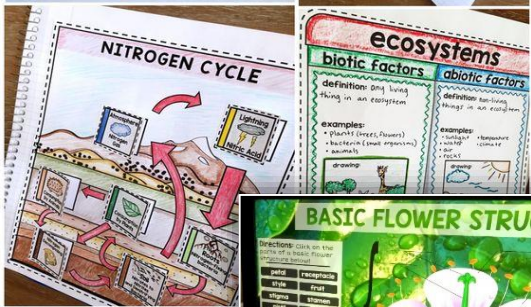
INTERACTIVE POWERPOINT SERIES

INTERACTIVE NOTEBOOK SERIES

Earth Science STEM Projects

Earth Science Assessments

Earth Science Google Projects



How To Use

Directions for the Teacher:

Have your students use the following pages to create their very own science interactive notebook!

Each page will have different cutouts. Have students read the instructions on each page and use the dotted lines to help them know which pieces to cut and place in their notebook. It's that easy!

Page 6 is the student cover of the unit.

Towards the end of the resource, you will find the answer key pages. Feel free to use them as a guide with your students.

Enjoy!

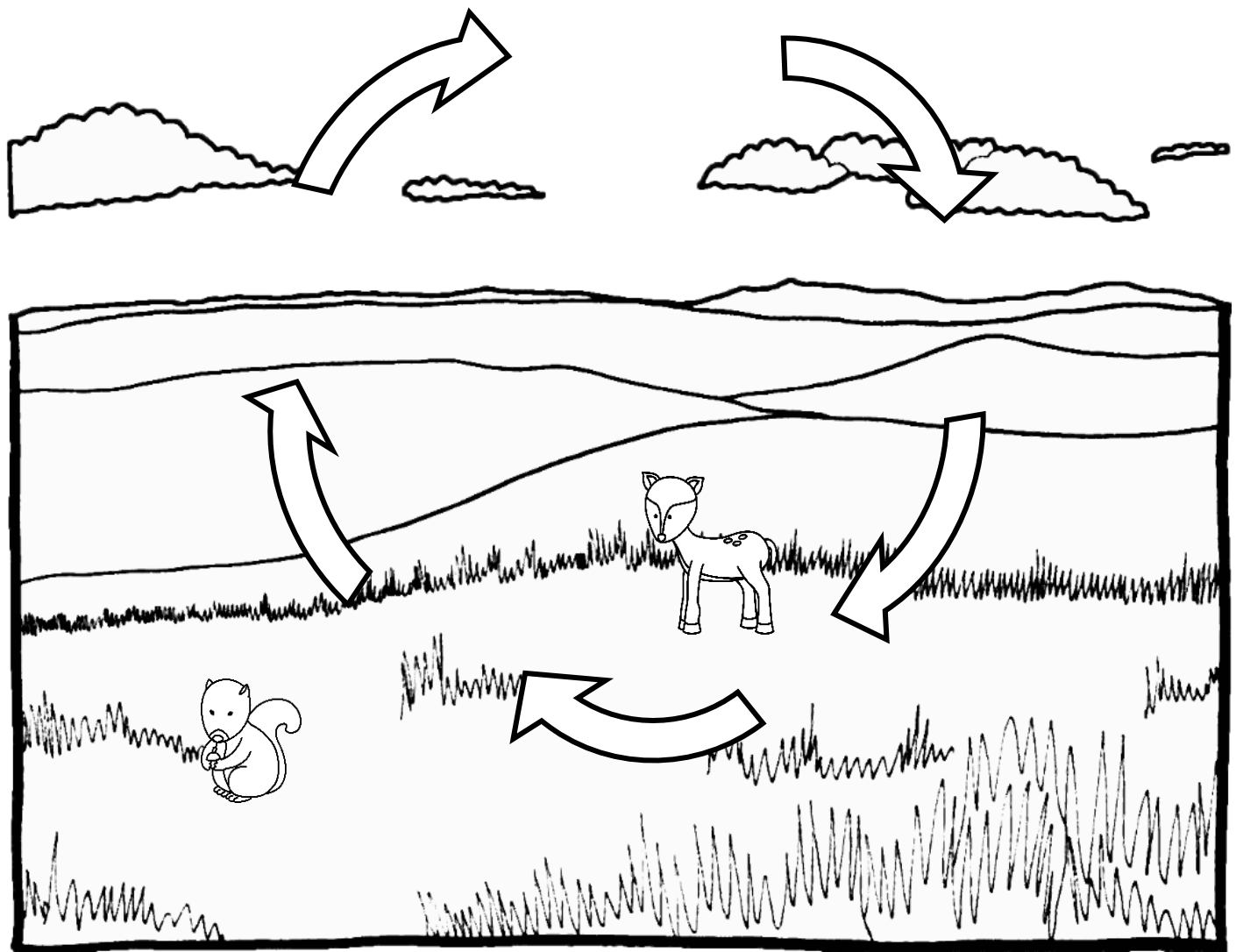
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Science

Interactive Notebook

Earth's Cycles



NAME: _____

POWER WORDS!

Directions: These are words you'll be reading and defining throughout this unit. Come back to this page when you discover the definition and write it below!

Cut out each flap and glue at the top. Write the definition underneath the flap!

cycle

carbon

**carbon
dioxide**

photosynthesis

oxygen

nitrogen

nitrates

nitrites

**water
cycle**

evaporation

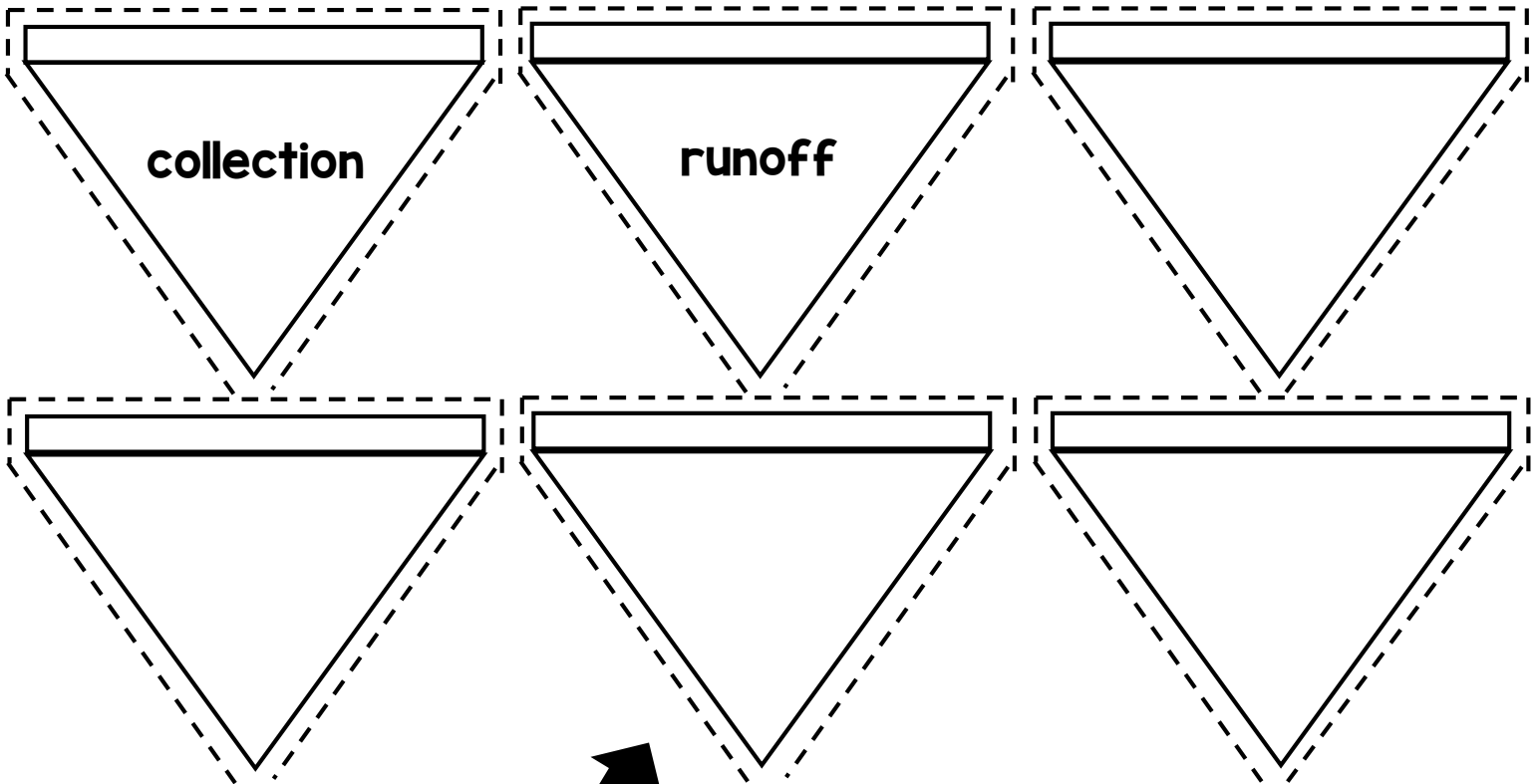
condensation

precipitation

POWER WORDS!

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Cut out each flap and glue at the top. Write the definition underneath the flap!



Create your own flaps!

CARBON CYCLE

Overview: Carbon is one of the most important elements on Earth. It is an element all living things are made up of. We get energy from the carbon in the food we eat. Both plants and animals need carbon in order to survive. The carbon cycle recycles carbon between inorganic and organic forms.

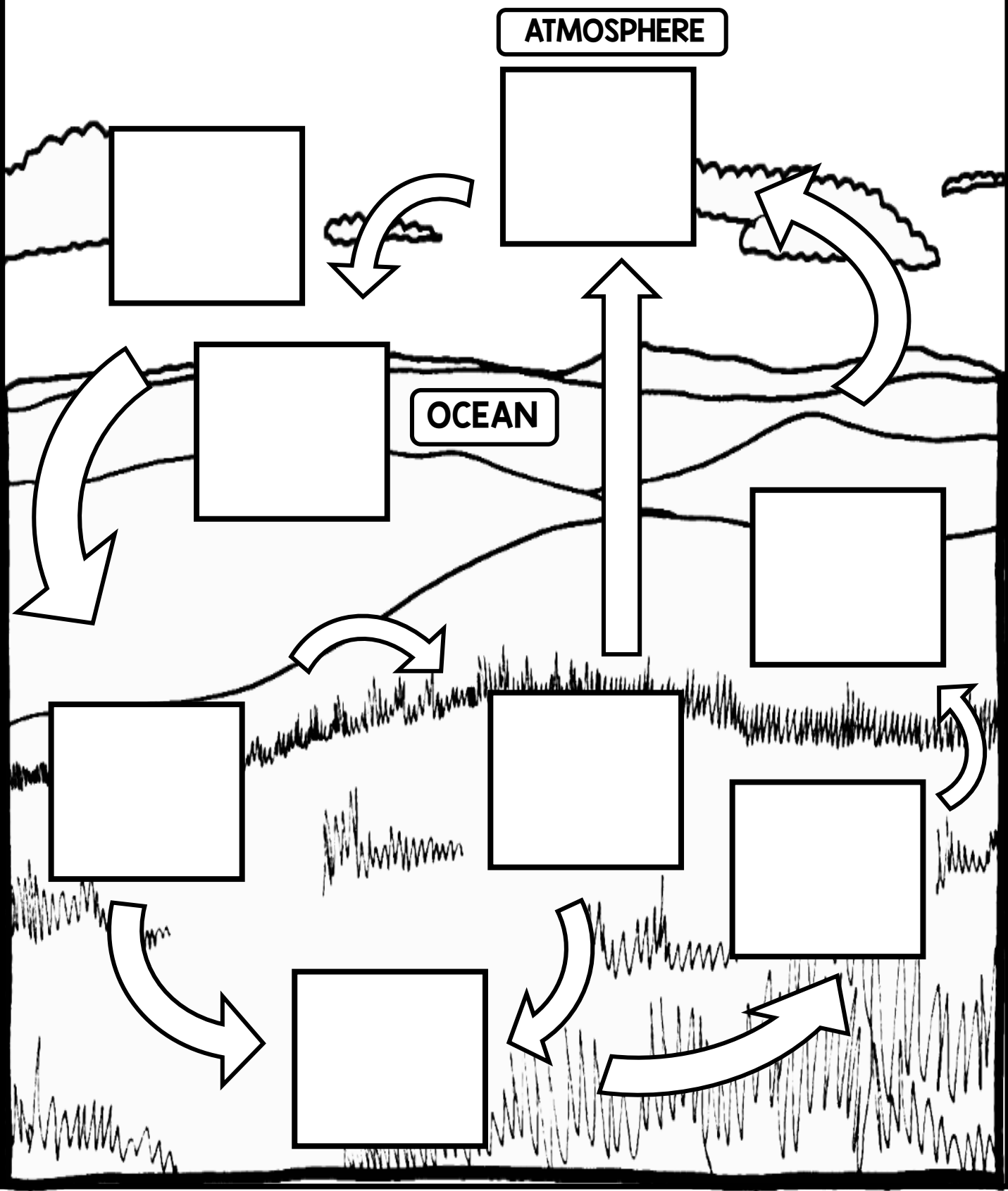
Directions: Write a question underneath the flap that you wish you knew more about!

A question I have about the carbon cycle is...

CARBON CYCLE

ATMOSPHERE

OCEAN



CARBON CYCLE

Ocean
Exchange
/Uptake



CO₂ Cycle



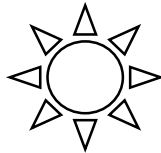
Dead
Organisms



Animal
Respiration



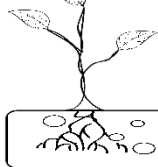
Sunlight



Fossil
Fuels



Photosynthesis



Factory
Emissions

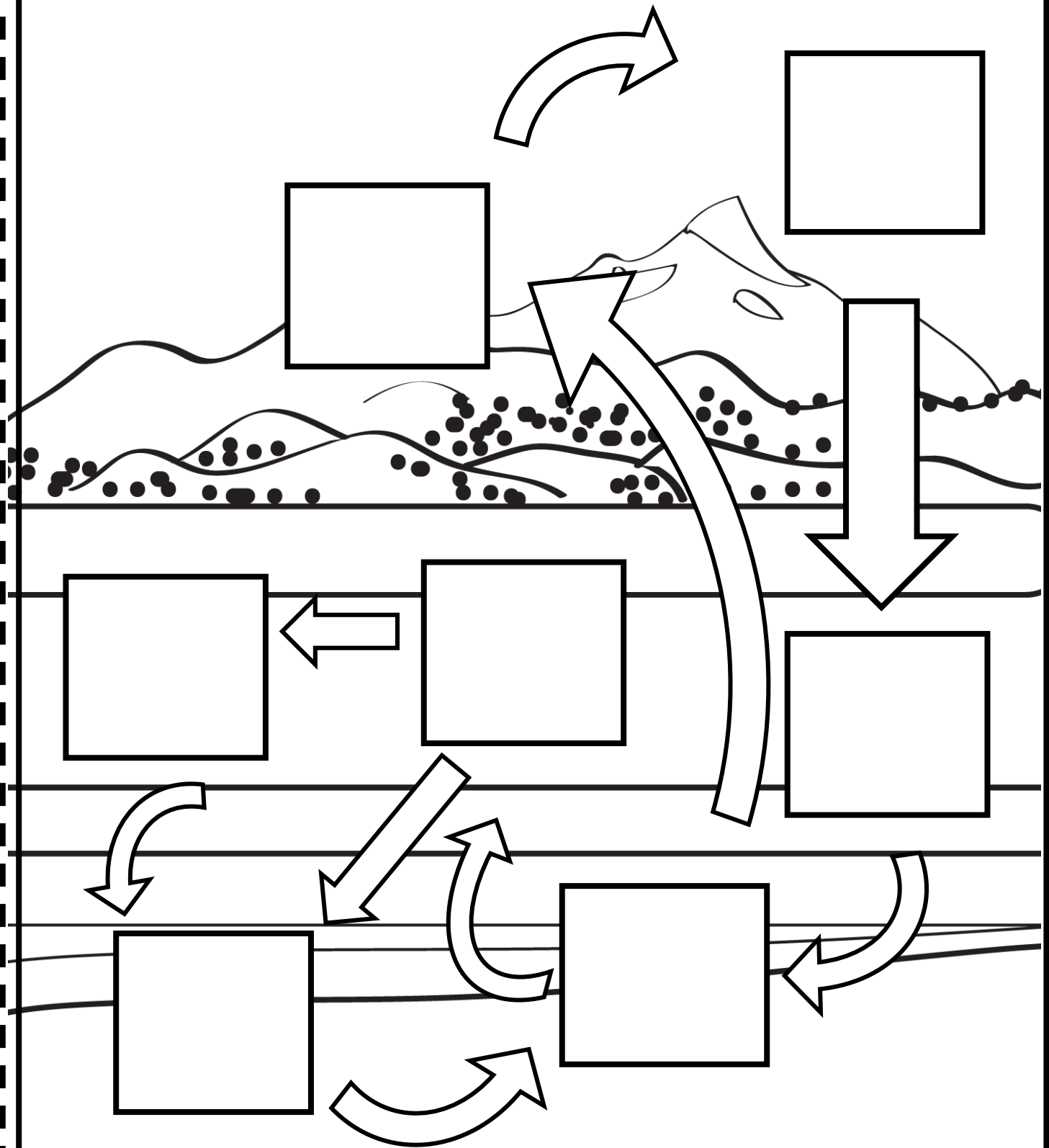


NITROGEN CYCLE

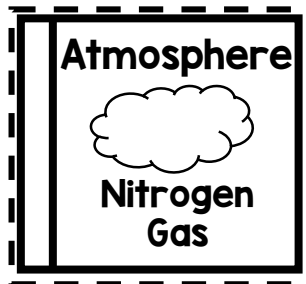
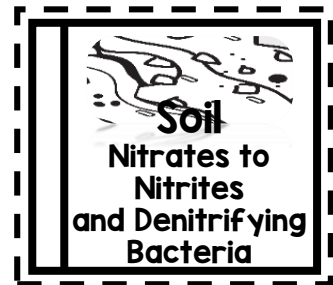
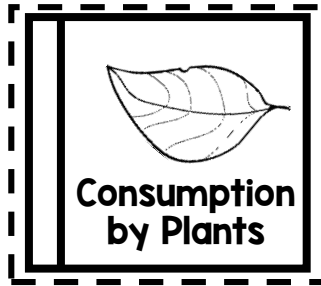
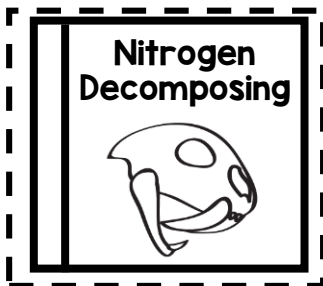
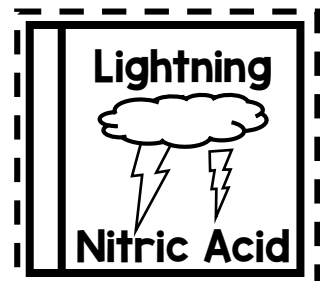
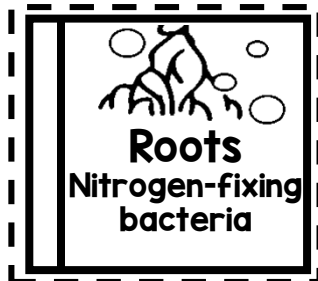
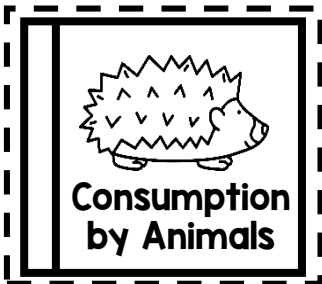
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A question I have about the nitrogen cycle is...

NITROGEN CYCLE



NITROGEN CYCLE

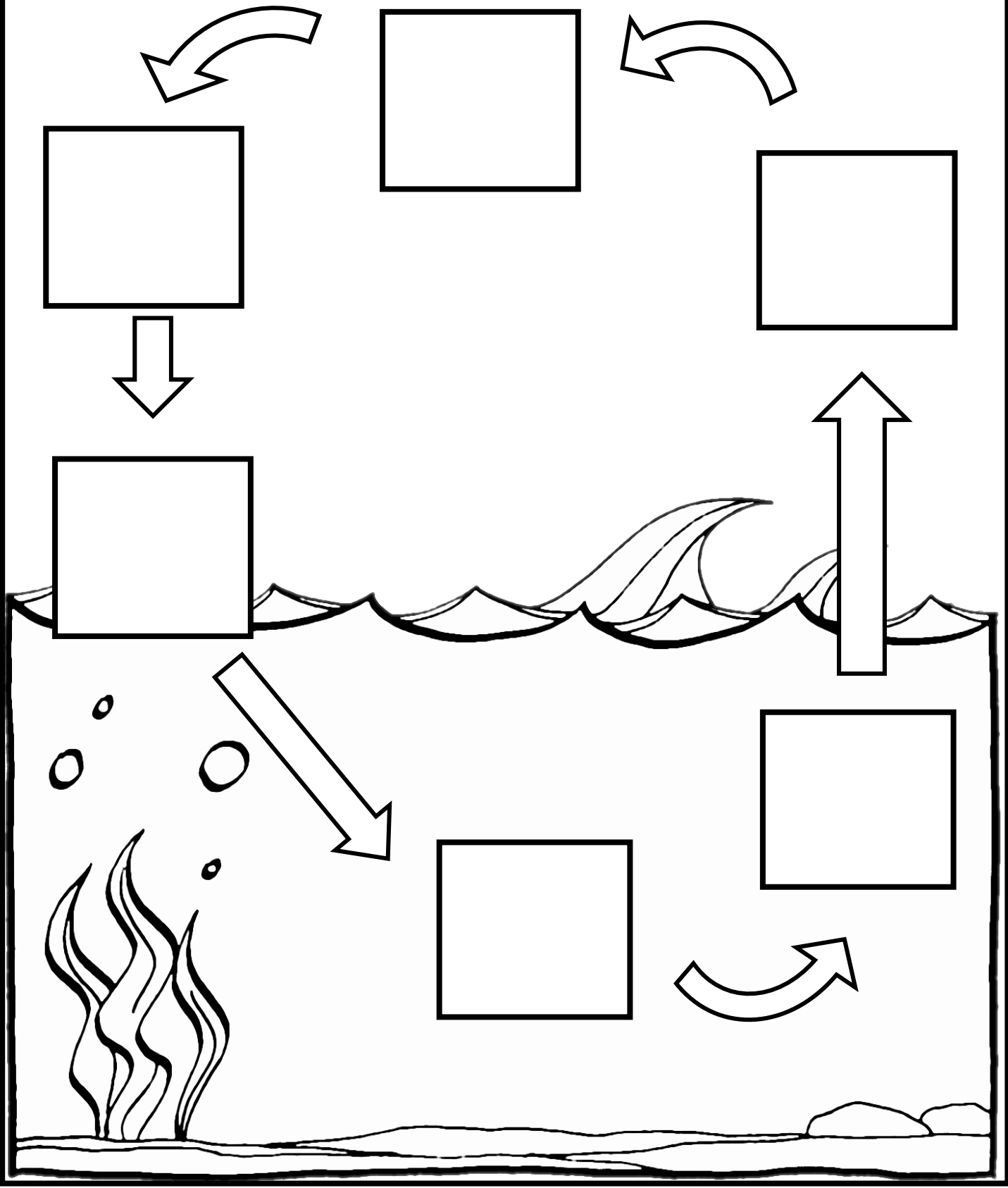


WATER CYCLE

Overview: Water is necessary for all organisms to survive on earth. Water is cycled amongst its three states of matter. The sun's energy drives the different stages of the water cycle between precipitation, evaporation, and condensation. Water is cycled through the biosphere, stopping in many different places along the way.

A question I have about the water cycle is...

WATER CYCLE



WATER CYCLE

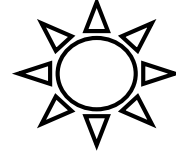
Precipitation



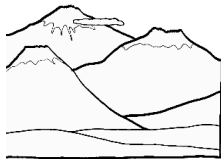
Condensation



Heat From
the Sun



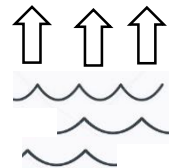
Collection
/ Runoff



Ocean



Evaporation



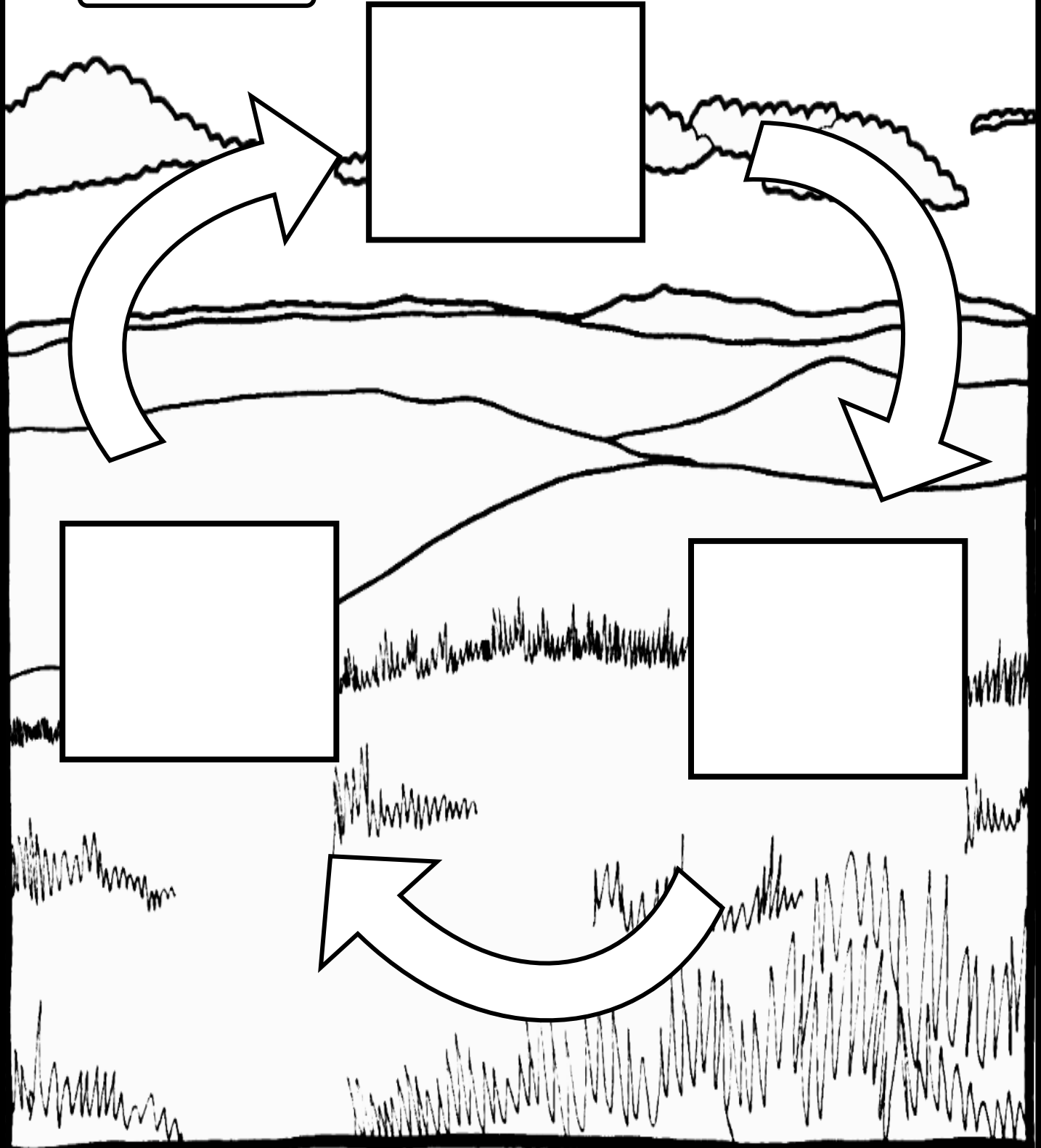
OXYGEN CYCLE

Overview: Oxygen is an element that is vital to allow most life on earth to thrive and prosper. Oxygen is cycled between organisms and outside of organisms throughout the biosphere. Oxygen is a main gas found in the atmosphere of Earth and can only get there with help from photosynthetic organisms.

A question I have about the oxygen cycle is...

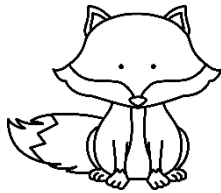
OXYGEN CYCLE

ATMOSPHERE

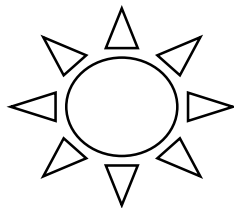


OXYGEN CYCLE

**Animal
Respiration**



Photosynthesis



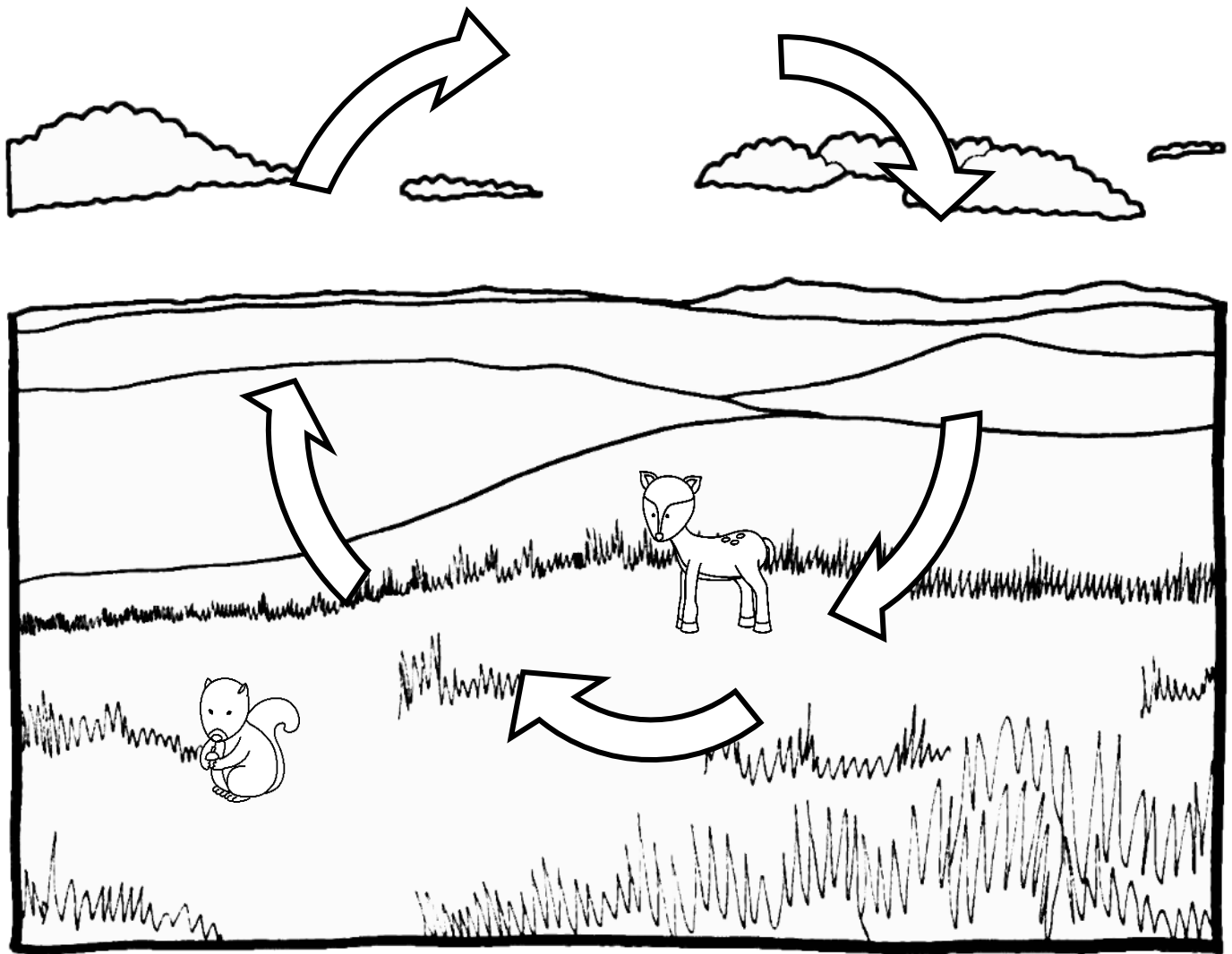
Sunlight

Science

Interactive Notebook

Earth's Cycles

ANSWER KEY



NAME: _____

POWER WORDS!

Directions: These are words you'll be reading and defining throughout this unit. Come back to this page when you discover the definition and write it below!

Cut out each flap and glue at the top. Write the definition underneath the flap!

cycle

a series of events that are regularly repeated in the same order, over and over again.

carbon

An abundant nonmetallic element that occurs in many inorganic and in all organic compounds

carbon dioxide

a colorless gas produced by burning carbon, organic compounds, and by respiration. It is present in air and is absorbed by plants during photosynthesis.

photosynthesis

the process by which green plants and some other organisms use sunlight to synthesize foods from carbon dioxide and water.

oxygen

a colorless, odorless gas and the life-supporting component of the air.

nitrogen

A colorless, odorless unreactive gas that forms about 78 percent of the earth's atmosphere.

nitrates

Nitrates are mainly produced for use as fertilizers in agriculture because of their high solubility and biodegradability. (Part of the nitrogen cycle)

nitrites

Nitrites are an important component of the nitrogen cycle and are used as food preservatives.

water cycle

the cycle of processes by which water circulates between the earth's oceans, atmosphere, and land, involving precipitation as rain and snow, drainage in streams and rivers, and return to the atmosphere by evaporation and transpiration.

evaporation

Evaporation is the process of a substance in a liquid state changing to a gaseous state due to an increase in temperature and/or pressure.

condensation

the conversion of a vapor or gas to a liquid.

precipitation

rain, snow, sleet, or hail that falls to the ground.

POWER WORDS!

Directions: These are words you'll be reading and defining throughout this unit. Come back to this page when you discover the definition and write it below!

Cut out each flap and glue at the top. Write the definition underneath the flap!

collection
When water that falls from the clouds as rain, snow, hail or sleet, collects in the oceans, rivers, lakes, streams.

runoff
Surface runoff is water, from rain or snowmelt that flows over the land surface. It is a major component of the water cycle.

Create your own flaps!

CARBON CYCLE

Overview: Carbon is one of the most important elements on Earth. It is an element all living things are made up of. We get energy from the carbon in the food we eat. Both plants and animals need carbon in order to survive. The carbon cycle recycles carbon between inorganic and organic forms.

Directions: Write a question underneath the flap that you wish you knew more about!

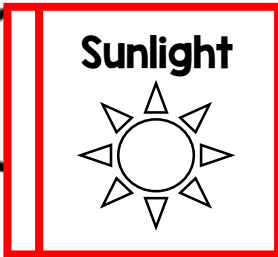
**A question I have
about the carbon
cycle is...**

Answers will vary.

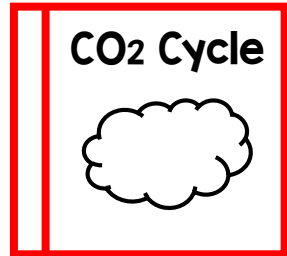
CARBON CYCLE

ANSWER KEY

Plants utilize sunlight and CO₂ from the atmosphere.

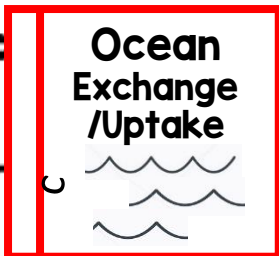


ATMOSPHERE



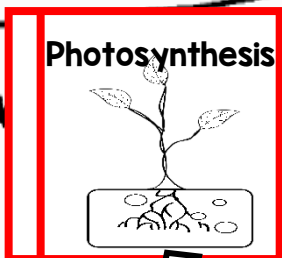
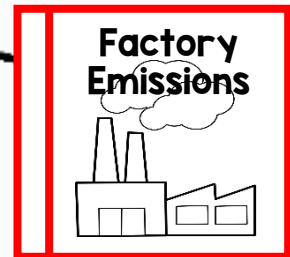
The biggest abiotic reservoir for carbon is found in the atmosphere in the form of CO₂

OCEAN

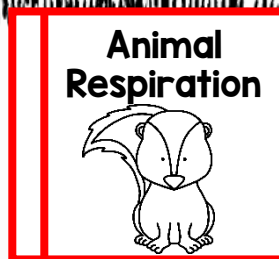


CO₂ is absorbed in the ocean.

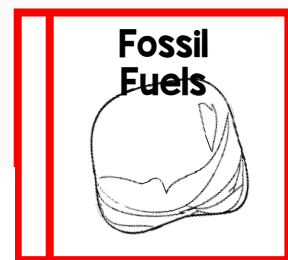
Burning of fossil fuels releases extra CO₂ into the atmosphere.



Photosynthetic organisms use CO₂, water, and sunlight to make organic material.

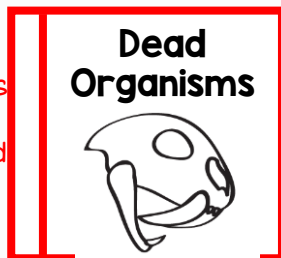


Animals eat plants and other animals containing carbon. Cellular respiration changes organic carbon to CO₂.



Over time, carbon from decomposing organisms can be used as fossil fuels.

When organisms decompose, carbon is added to the soil.



NITROGEN CYCLE

Overview: Nitrogen is necessary to make proteins which are needed for many of the processes and material of life. The nitrogen cycle allows nitrogen to change forms and be utilized by organisms found on planet earth. Most of the nitrogen found on earth is contained in the atmosphere, however bacteria in the soil is vital in allowing nitrogen to be usable for other organisms, including plants and animals.

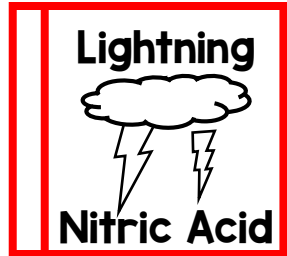
A question I have about the nitrogen cycle is...

Answers will vary.

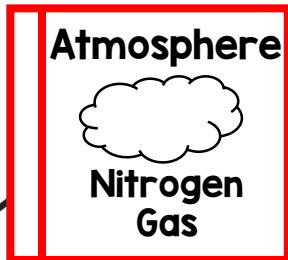
NITROGEN CYCLE

ANSWER KEY

Lightning is one mechanism that can change nitrogen into a usable form.

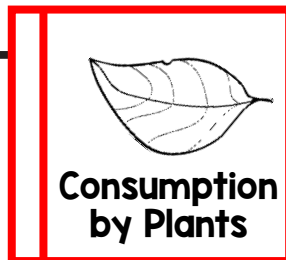
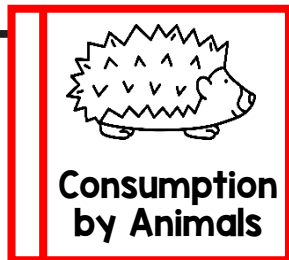


78% of the nitrogen found on earth is in the atmosphere.

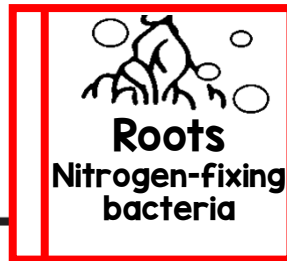


Plants get usable nitrogen from bacteria in the soil.

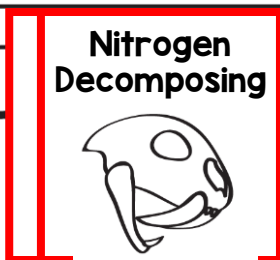
Animals eat plants that contain nitrogen



Bacteria found on roots of legumes can fix nitrogen into a usable form.



When animals decompose, nitrogen is put back in the soil.



Other bacteria can convert fixed nitrogen into nitrates and nitrites for plants. Other bacteria convert some nitrogen back to gaseous form.

WATER CYCLE

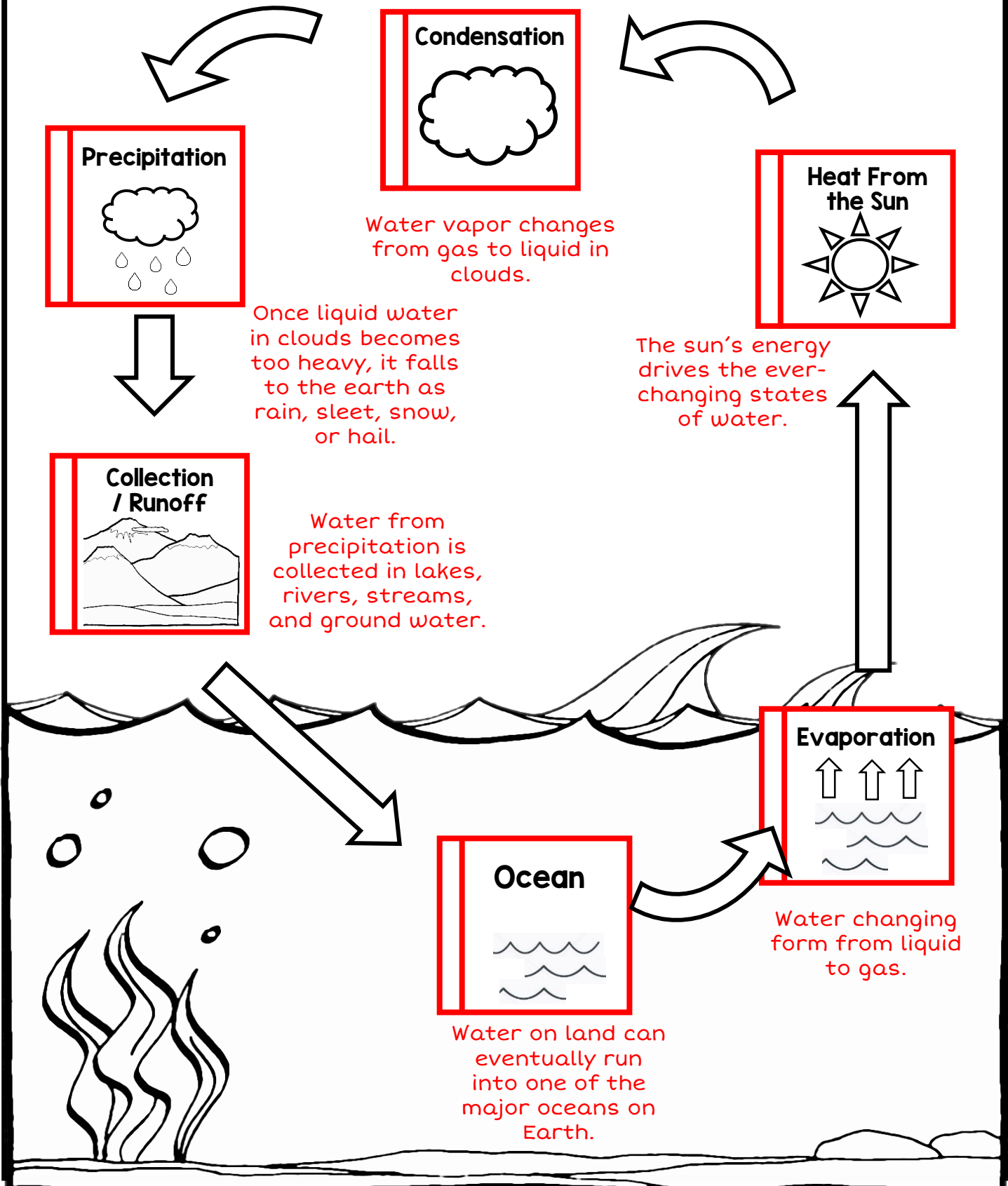
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A question I have about the water cycle is...

Answers will vary.

WATER CYCLE

ANSWER KEY



OXYGEN CYCLE

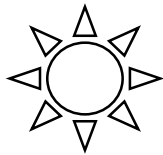
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A question I have about the oxygen cycle is...

Answers will vary.

OXYGEN CYCLE ANSWER KEY

ATMOSPHERE



Sunlight

The sun's energy is used by photosynthetic organisms.

CO₂ is taken out of the atmosphere in photosynthesis and oxygen gas is made in the process.

Photosynthesis



Animal Respiration



Animals utilize oxygen in cellular respiration and CO₂ is made in the process.

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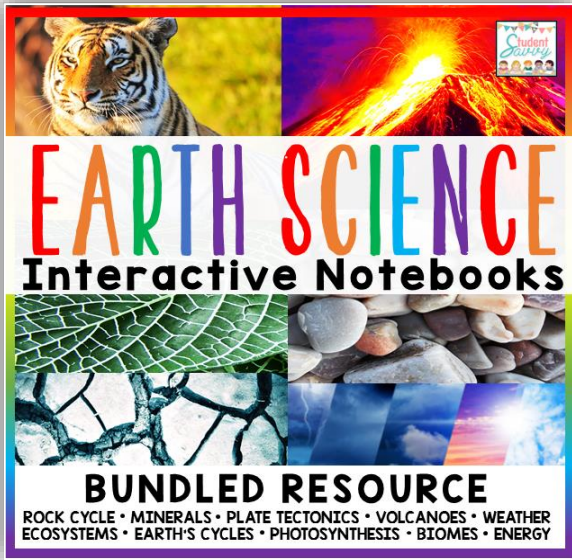
EARTH SCIENCE

INTERACTIVE NOTEBOOKS & POWERPOINTS

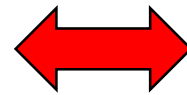
Interactive
Notebook Series

CLICK to find
the resource!

Interactive
PowerPoint Series



ALIGNED
WITH...

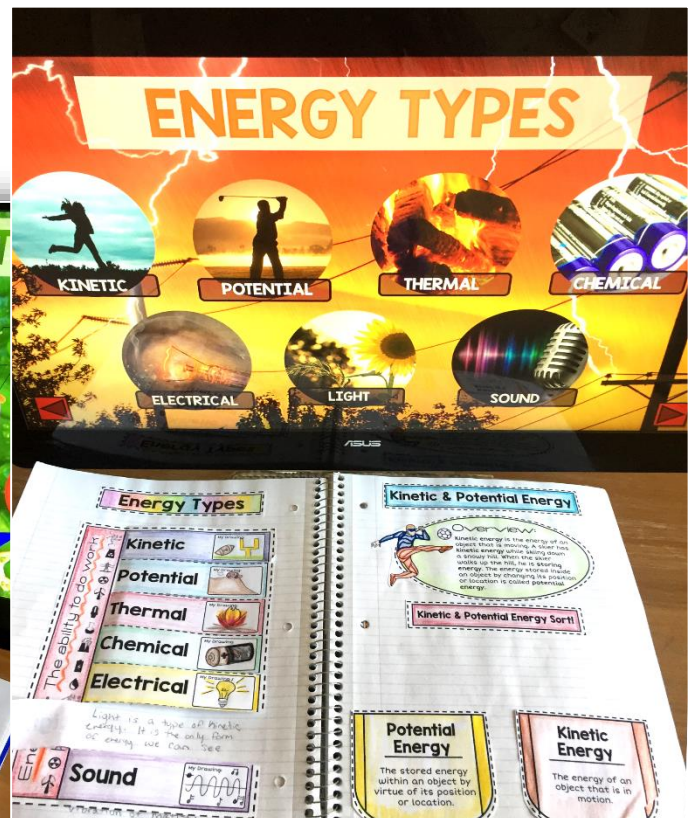


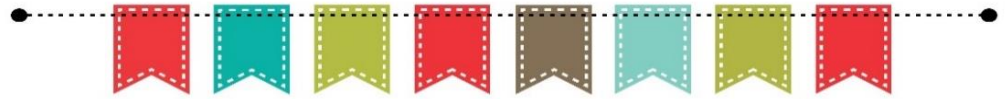
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individual units

Includes:

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- Minerals & Gems
- Plate Tectonics
- Volcanoes
- Weather
- Ecosystems
- Earth's Cycles
- Photosynthesis
- Biomes
- Energy





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PLATE TECTONICS

Interactive Notebook

ANSWER KEY INCLUDED!

STEM ACTIVITY • **NGSS** ALIGNED

VOLCANOES

Interactive Notebook

ANSWER KEY INCLUDED!

STEM ACTIVITY INCLUDED

ROCKS & ROCK CYCLE

Interactive Notebook

ANSWER KEY INCLUDED!

STEM ACTIVITY INCLUDED

Trading Cards

Animals • Biomes • Adaptations

Aquatic • Forest • Tundra • Desert • Grassland

music exploration in the classroom!

music genres

HISTORY • SOUND CLIPS • ACTIVITIES • ART • CREATIVE FUN

classical jazz hip hop pop country rock

sick?

worry-free
NO PREP!

sub plans

