Brandon Valley School District District Learning Plan March 16-19, 2020

Grade 5 Science



Brandon Valley School District Distance Learning Plan

LESSON/UNIT: Water Cycle SUBJECT/GRADE: Science/5th DATES: March 16 - 19, 2020

What do students need to	Monday (3/16):
do?	*Read the attached "Water Cycle" article.
	*Complete the "Water Cycle Review" handout
	Tuesday (3/17):
	*Begin Water Cycle project (attached below)
	Wednesday (3/18):
	*Continue working on Water Cycle projects
	Thursday (3/19):
	*Finish Water Cycle project
What do students need to	They need to return their completed water cycle project.
bring back when school	
resumes?	
What standards do the	5-ESS2-2: Describe and graph the amounts and percentages of water and fresh water in
lessons cover?	various reservoirs to provide evidence about the distribution of water on Earth.
lessons cover.	5-ESS2-1: Develop a model describing the interaction of geosphere, biosphere,
	hydrosphere, and atmosphere.
What materials do	Students need the following attached handouts:
students need? What	"Water Cycle" article and Water Cycle Review handout
extra resources can	Water Cycle Project
students use?	Water Cycle Project
stadents asc.	
What can students do if	Watch the study jams video on the water cycle:
they finish early?	http://studyjams.scholastic.com/studyjams/jams/science/ecosystems/water-cycle.htm
, , , , , ,	Go to Mysteryscience.com and watch Mystery Science Videos
	Practice test for the Science AIR test: https://sd.portal.airast.org/training-tests.stml
Who can we contact if we	Mrs. Sershen- gina.sershen@k12.sd.us
have questions?	Mr. Stroh- nick.stroh@k12.sd.us
nave questions:	Mr. Metzger- tyson@metzger.k12.sd.us
	Mr. Wiese- alex.wiese@k12.sd.us
	Mrs. Woodard- kathy.woodard@k12.sd.us
	Mrs. Johnson- Jaimie.johnson@k12.sd.us
	Ms. Murtha- Christine.murtha@k12.sd.us
Notes:	Mot material of institution of the control of the c
Have a great week!	
That a great week:	

Water Cycle Project

You have been learning about the water cycle. The water cycle is continually changing from liquid water to water vapor to ice. One way to think about the water cycle is to follow a drop of water around as it moves its way through the cycle. You will be creating your own water cycle through the eyes of a water molecule. Below is the information we have learned so far. Use the check off list to help you create your water cycle.

Water can be stored in different ways. We learned that water can be stored in:

- surface water (lakes, streams, rivers, etc.)-97% is stored in oceans.
- atmosphere (clouds, fog, humidity)
- precipitation (rain, sleet, snow, hail)
- glaciers (these giants, slowly moving ice sheets form from snow that compacts. About 75% of the Earth's fresh water is stored as glaciers (most in the north and south poles)
- Groundwater

The parts of the water cycle:

- Evaporation: water changes into water vapor
- Condensation: process of water vapor changing into tiny liquid droplets and creating clouds
- Precipitation: more and more vapor condenses until the cloud becomes to heavy and water droplets fall to Earth.
- Run-off: Water flows off the land and mountains and into different places.
- Collection: Where water comes together and accumulates
- Groundwater: This water collects underground in storage areas such as reservoirs or aquifers.

Use your water cycle information handout to complete your water cycle, these vocabulary words and definitions must be in your water cycle

- *Evaporation
- *Condensation
- *Precipitation
- *Run-off
- *Collection
- *Groundwater

[~]You will also be graded on your neatness and creativity.

Water Cycle

The water cycle is a continuous process of water moving from Earth to the atmosphere and returning back to Earth. There is no beginning or end to this cycle. 'eat from the sun causes the water to rise from Earth and the cold temperatures in the atmosphere cause the water to return to Earth.

The sun warms the water on Earth's surface. The heat causes the water to evaporate, or change into water vapor. Water vapor is an invisible gas. The water vapor rises up into the atmosphere. Evaporation causes puddles to disappear and wet clothes to dry on the clothesline.





As the water vapor rises higher into the atmosphere, the temperature becomes colder. The water vapor gets cold and condenses. **Condensation** is the process of water vapor changing into tiny liquid droplets. These tiny water droplets form a cloud. Clouds are not the only place we see condensation. Fog, dew, frost, and the tiny drops that form on the outside of your drinking glass are also forms of condensation.

More and more vapor condenses until the cloud becomes too heavy with ater. **Precipitation** occurs. The water droplets fall to Earth. Depending upon weather conditions, precipitation may be in the form of rain, snow, sleet, and hail.

Some precipitation becomes run-off. It flows off the land and mountains and into different places of collection. Some precipitation sinks into the ground and becomes ground water. This water may collect in underground storage areas such as reservoirs or aquifers. Some precipitation falls into the freshwater bodies of rivers and lakes. Precipitation may also fall into the saltwater of oceans. Oceans cover about 75% of Earth, so they provide the most water for the water cycle.

After precipitation falls into various places, the process continues. Heat gain melts ice and causes liquid water to become water vapor. This gas form of water rises into the cold atmosphere where heat loss causes water vapor to condense into tiny droplets that form clouds. The clouds become heavy with droplets and precipitation occurs again.

Solid Water (ice) + Heat Gain = Melting (liquid water)

Liquid Water + Heat Gain = Evaporation (water vapor)

-Nater Vapor (gas) + Heat Loss = Condensation (clouds)

Liquid Water + Heat Loss = Freezing (ice)

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Water Cycle Review!

Name:		
1.	The is a continuous process of water moving from Earth to the	
	and returning back to Earth. There is no beginning or end to this	
2.	What causes the water to evaporate or change into water vapor?	
3.	What is water vapor?	
4.	As water vapor rises higher into the atmosphere, the temperatures become	
	The water vapor gets cold and	
5.	What are three examples of condensation?	
6.	When does precipitation occur?	
7.	What are the four types of precipitation?	
8.	Some precipitation becomes It flows off the land and mountains and into different places of Some precipitations sinks into the ground and becomes	
9.	What are the underwater storage areas called?	
10	. How much of the Earth is covered with the ocean?	
11.	. How does heat gain effect the water cycle?	
12.	. How does heat loss effect the water cycle?	