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**Earth and Space Science
Monday
10/31/2016**

Lately, in Science, we have been talking about the water cycle.

Warm up: On a sheet of paper, define the following terms

Condensation:

Precipitation:

Evaporation:

We have talked a bit about how water flows, how it is stored in clouds, and how it evaporates.

Today we are going to talk about another way that water is stored.

How water is stored

- Last week we mentioned that water run off is slowed down by plants, and that some water can be soaked up by the ground.
- Aquifers are kind of like underground water storage tanks.
- There is one in the central valley in California.



Aquifers

- We tend to use water in aquifers for agriculture. But, once all the water is pulled out of the ground, the ground compacts, and can't soak up as much water as before.

- When the groundwater is taken out and the earth compacted, the level of the soil drops. Several people have been measuring this from the 1920's onward in California.



The bigger problem

- But there is an aquifer that is MUCH larger than the one in California. In fact, it spans over several states.
- Its called the Ogallala aquifer.

- The Ogallala Aquifer is in 8 states. Wyoming, South Dakota, Nebraska, Colorado, Kansas, New Mexico, Oklahoma, and Texas.
- These states are also known as the United States' bread basket. Besides California, this is where a lot of the countries' staple crops are grown..like wheat, soy, and corn.



- <https://www.youtube.com/watch?v=XXFsS94HF08>



- What would happen if harmful substances got into the groundwater, and it could no longer be used for agriculture?

Can you think of any other potential problems?



Lets discuss:

What do you think will happen if the Ogallala Aquifer can no longer support farming in the mid west?

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**Earth and Space Science
Tuesday
11/1/2016**

The Water Cycle

- How does pollution affect the water cycle?
- Take notes during the video!
- <https://www.youtube.com/watch?v=RMyCcWECbNE>



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**Earth and Space Science
Wednesday
11/2/2016**

Today we are going to continue to investigate how pollution can affect our water and the water cycle.

We are going to begin today by reading a news article, and then we will have a brief discussion.

What are the pro's and con's of the pipeline?

Why do Native American Tribes want to stop the pipeline?



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**Earth and Space Science
Thursday
11/3/2016**

At the very beginning of the school year, we talked briefly about the 4 major parts of Earth's system..

Today we are going to back up a minute and look at them in more detail.

They are:

**The Atmosphere
The biosphere
The Hydrosphere
and the Geosphere.**

**Which ones have
we already started
studying?**

Turn to page 41 in your book.

**We are going to read sections
2.1, and 2.2**

**Then, you will work on the Chapter
Review on page 68-71.**

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**Earth and Space Science
Friday
11/4/2016**

Today we are going to continue working on the book work from yesterday!