

# Science

Monday 10.19.2015

# Business First

- Tests have been graded
  - Only about 6 people (total out of both classes) passed the test.
  - You had a study guide, and no surprise questions. This leads to 2 conclusions
    - 1~ we need to go over how to study
    - 2~ you didn't learn from your mistakes the first time.
  - This makes me less inclined to offer you test corrections in the future. Few of you have taken advantage of them.

# Study Skills

- Tips from successful students:
  - Review class materials over the weekend.
    - If you don't use it, you lose it! Look over quizzes, notes, classwork, and homework over the weekend. Remember, the more times you review something, the better it will stick.
    - Most of you don't take notes in class. You need to start doing that. We'll review how to take notes in a little bit.
  - Don't watch T.V. while you are doing work.
    - Studying with distractions makes it more difficult to remember things later. Your brain works best when it is only doing one thing at a time.

# When Preparing for Tests

- If you are memorizing things, make flashcards!
- Always review old homework assignments, quizzes, tests, and any other materials you have from class.
  - Test questions don't come out of thin air. Tests are meant to gauge what you know, and what you know comes directly from class. Ms. Frykholm writes test questions based on what was covered in class, and pulls questions from classwork, homework and quizzes. There are no surprise questions.
- Ms. Frykholm gives you a study guide before the test. We go over it in class. She is basically giving you the answers to the test. If you aren't looking over the study guide/re-writing it/having somebody quiz you on the answers, you are not using your resources. However, you shouldn't JUST look at the study guide—also look over old quizzes, homework, and classwork!

# How to Take Notes

**Visual Note-taking: "THREE" THINGS TO REMEMBER**  
**THE BASICS**

NOT MERELY WRITING THE USUAL WAY:  
**TEXT**  
DISTINCTION  
HIERARCHY  
IMPORTANT  
DETAILS, DESCRIPTIONS, ETC.

**VISUAL**  
MEMONICS

**EMPHASIS**  
YOU CALL THE SHOTS

**A PICTURE IS WORTH A THOUSAND WORDS:**

**CHARTS, MAPS AND GRAPHS**

**DO THINGS YOUR WAY SO EVERYTHING MAKES MORE SENSE.**

**WHY VISUAL NOTE-TAKING?**

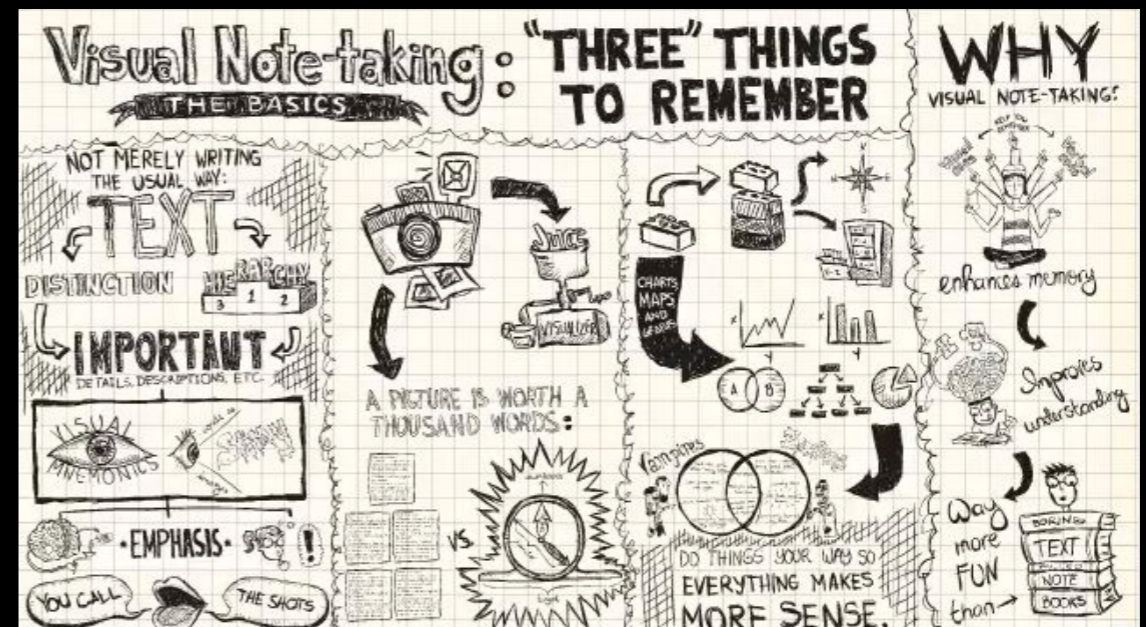
- enhances memory
- Improves understanding
- Way more FUN than

**BORING TEXT NOTE BOOKS**



# Taking Notes Continued

- When we are in class, take notes! Sometimes we take notes in the notebooks, but when you aren't, take your own notes and keep them in your binder to review at home!
- When taking notes: Draw pictures!
  - Don't write everything down verbatim. (what does verbatim mean?)
    - Notes are meant to jog your memory about the lesson. So just write down the main points!
  - Use bold, big, exciting letters to draw attention to IMPORTANT things.
  - See how this is organized with bullet points? You have big ideas and littler ideas that go along with the big ideas? You can organize your notes this way, too.



# Graphic Organizers

- Graphic organizers are another way to take good notes. We can do more of this in class and glue them into the notebooks, but you can also do this on your own on a sheet of notebook paper.


Name \_\_\_\_\_  
Date \_\_\_\_\_

## 3-2-1 Notes

Topic \_\_\_\_\_


**3 Things I learned**

- 1
- 2
- 3




**2 Questions I have**

- 1
- 2



**1 Picture**



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# Finally

- Be prepared for class. Instead of socializing when you come into class, get a sheet of paper and a pencil ready to take notes. This should be automatic when you enter the classroom. When I see students automatically do this, I'll be inclined to give them a ticket!
- Being prepared to class also means having all the materials that you need to be successful. For science, this means having your homework binder, paper, pencils (more than one), a reading book, your planner, and other supplies that I told you to buy over the summer.
  - For Math, that means also having your calculator, as we are going to need those more very soon.
  - Go to your locker between classes to get the supplies that you need. Don't assume that you won't need something.
  - Double check before class starts to make sure you have your homework.

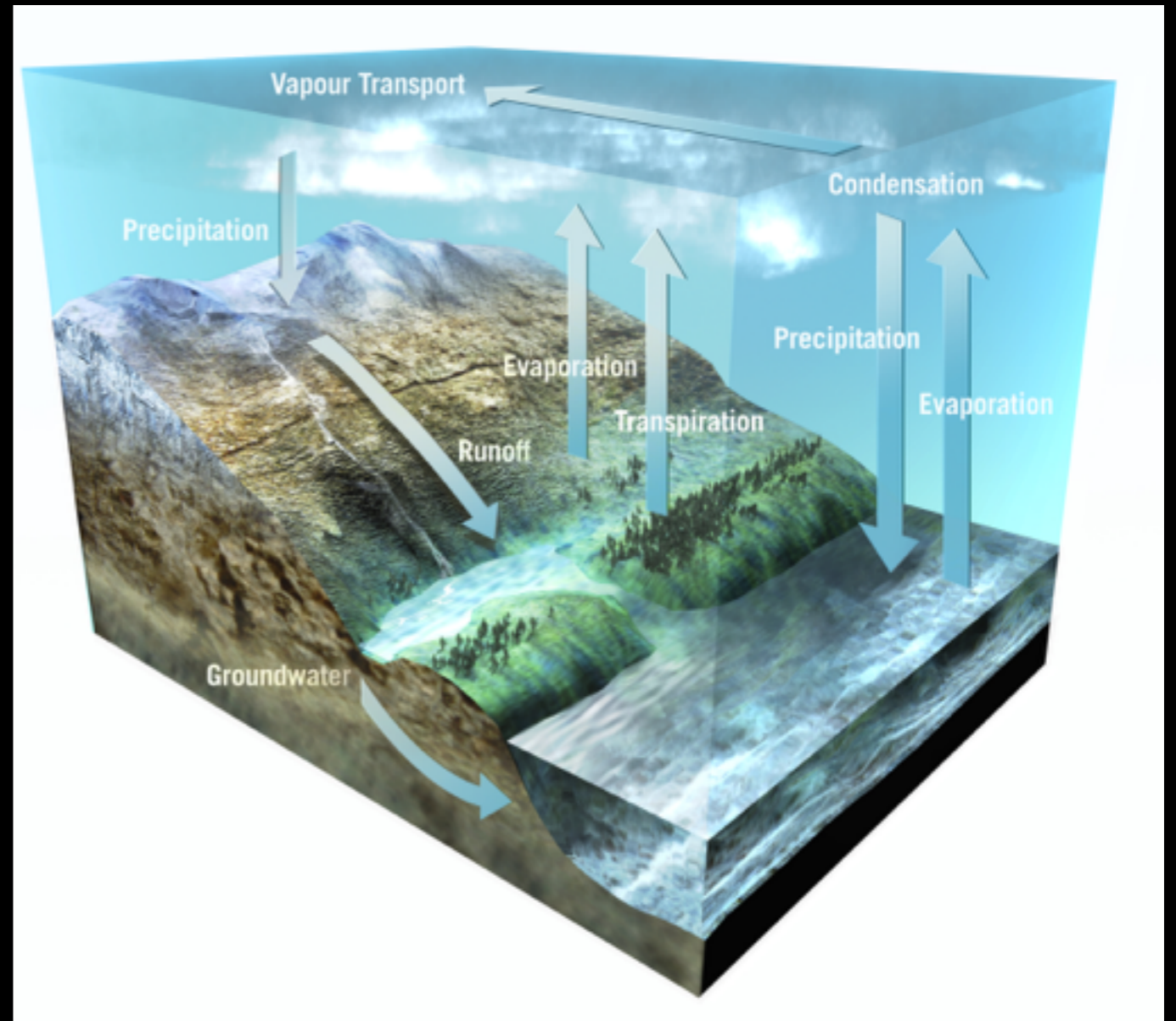


# Today

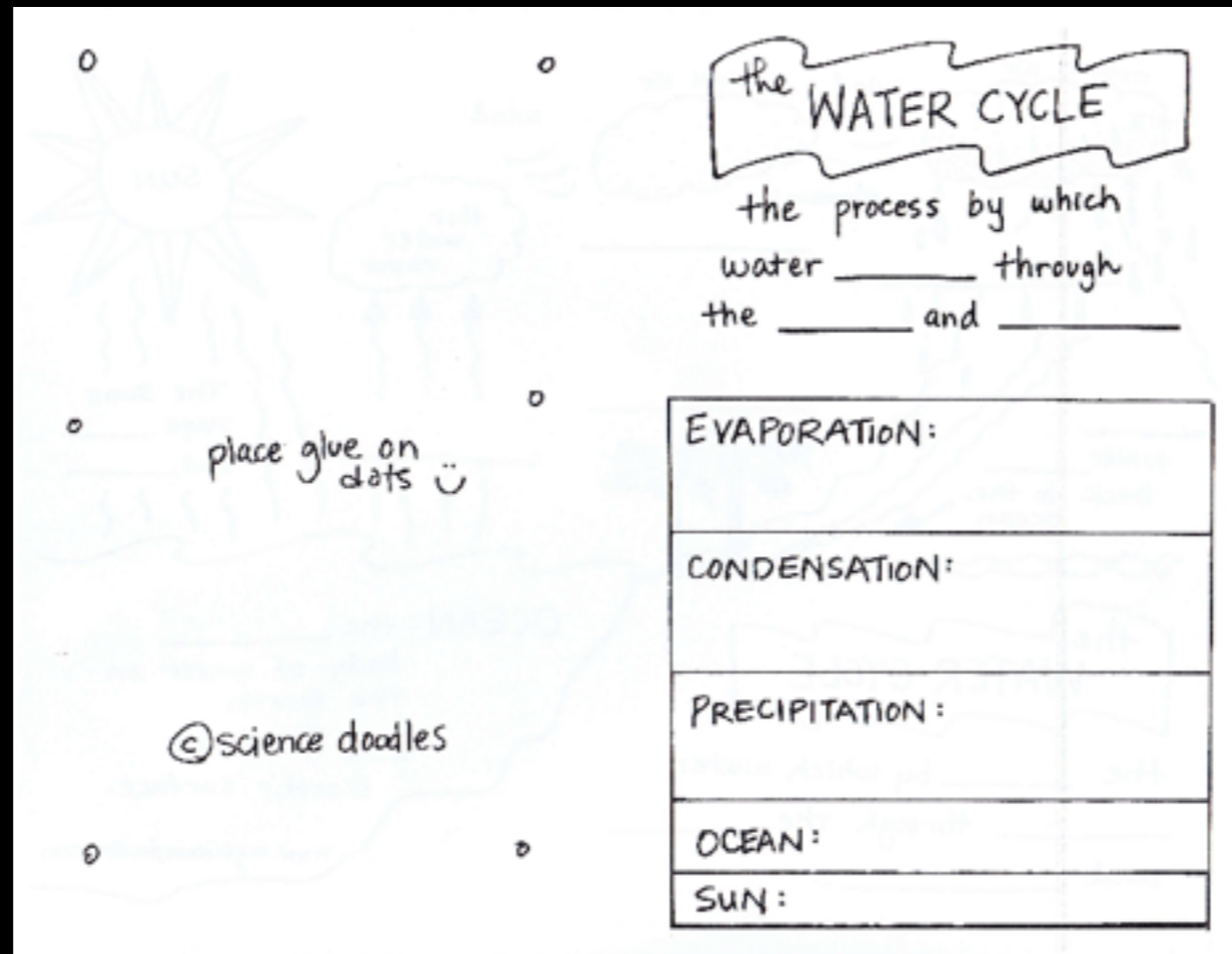
- Today we will be working on a foldable addressing the Water Cycle, which we started to learn about on Friday.
- Think back to last week. What do you remember about the water cycle?

# Our Focus

- Our focus as we study the water cycle is how the water cycle changes the surface of the Earth.
- Lets take a second to take a look at our EQ.



# Your Foldable



- Your foldable is two-sided. The first page looks like this. Fold it in 1/2 and put glue on the back. Be ready in a minute to fill in the information.

# the WATER CYCLE

the process by which water moves through the Earth and atmosphere

place glue on dots ☺

©science doodles

## EVAPORATION:

the process that occurs when water changes from a liquid to a gas, caused by heat.

## CONDENSATION:

the cooling of water in the atmosphere, changing gas to a liquid.

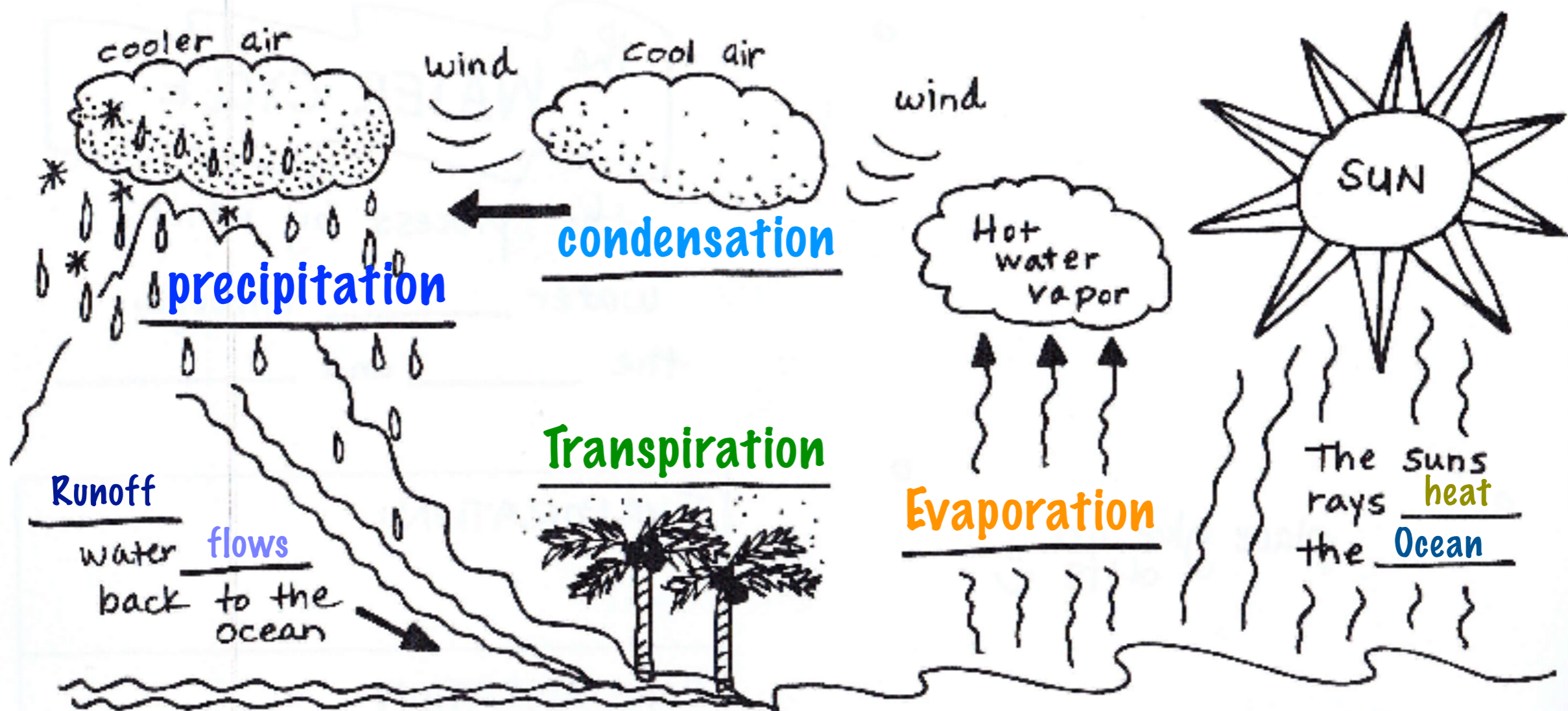
## PRECIPITATION:

water droplets fall from the atmosphere in the form of rain, sleet, snow or hail

OCEAN: largest body of water on Earth.  
75% of Earth's surface

SUN: provides energy that evaporates water and heats land.





the **WATER CYCLE**

the process by which water moves through the Earth and atmosphere.

OCEAN: the Largest body of water on the Earth  
75 % of the Earth's surface.



- Use the remaining class time to color your foldable!

# Science

Tuesday 10.20.15

# the WATER CYCLE

• notes.

75 % of the surface of the Earth is Water. Without water we could not survive.

## FOUR CHARACTERISTICS of ..... water .....

💧 color      💧 clarity

💧 salinity      💧 taste

Water is the lifeblood of organisms. Nutrients are distributed and waste products are removed.

place glue on dots ☺


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## 🚰 List Five Ways we use water

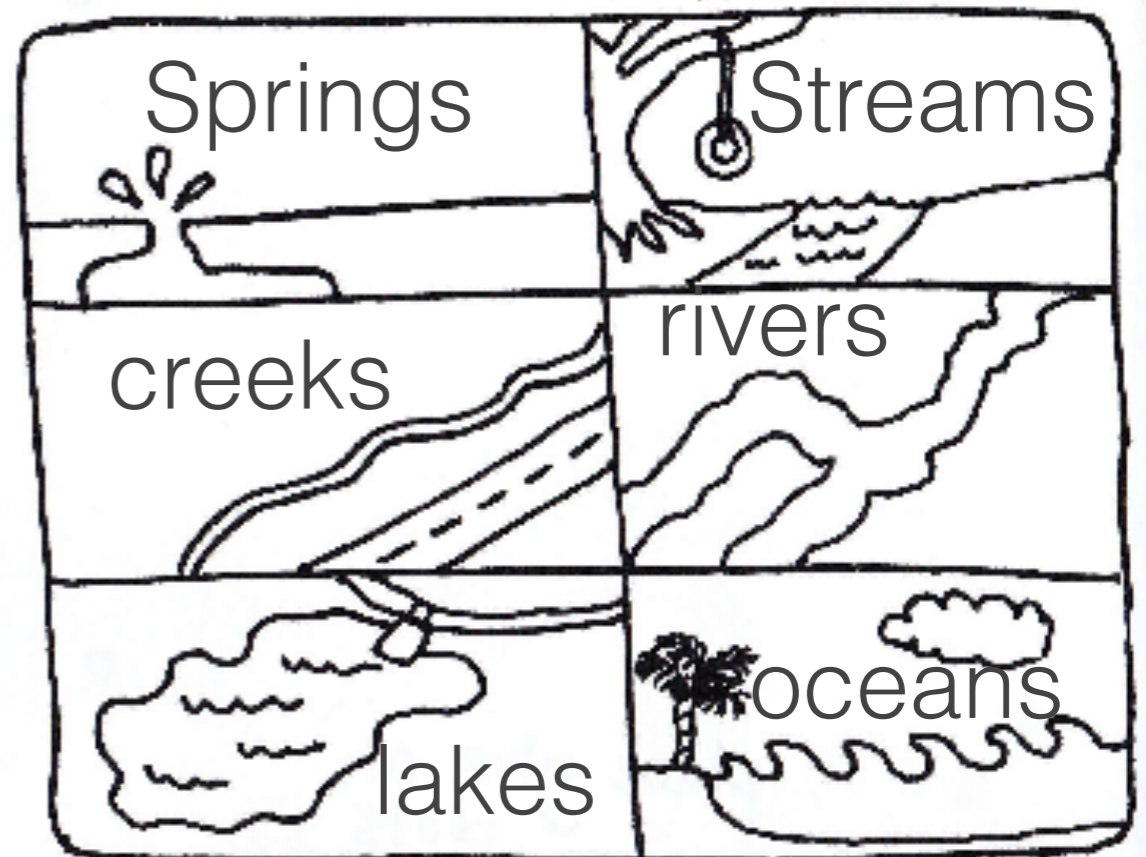
- 🚰 brush teeth, bathe wash
- 🚰 cook, drink, eat
- 🚰 swim, surf, ski, snowboard
- 🚰 hydro-power
- 🚰 put out fires

Most of the Earth's water is at the North and South Poles in the form of ICE.

★:★ IMPORTANT TO KNOW ★:★  
★ The amount of water has stayed the same over Eons of years, however the form or state of water is constantly changing

The  is the driving force of the Earth's Weather.  
The major source of energy which powers the water cycle is the SUN.

## We use our water from:



## **TWO** Classifications of water

1. salt water found in oceans.
2. Fresh water is our primary source of Drinking water.

the WATER CYCLE has

**No** start or **end**.

- Use the remaining class time to color your foldable!



# Science

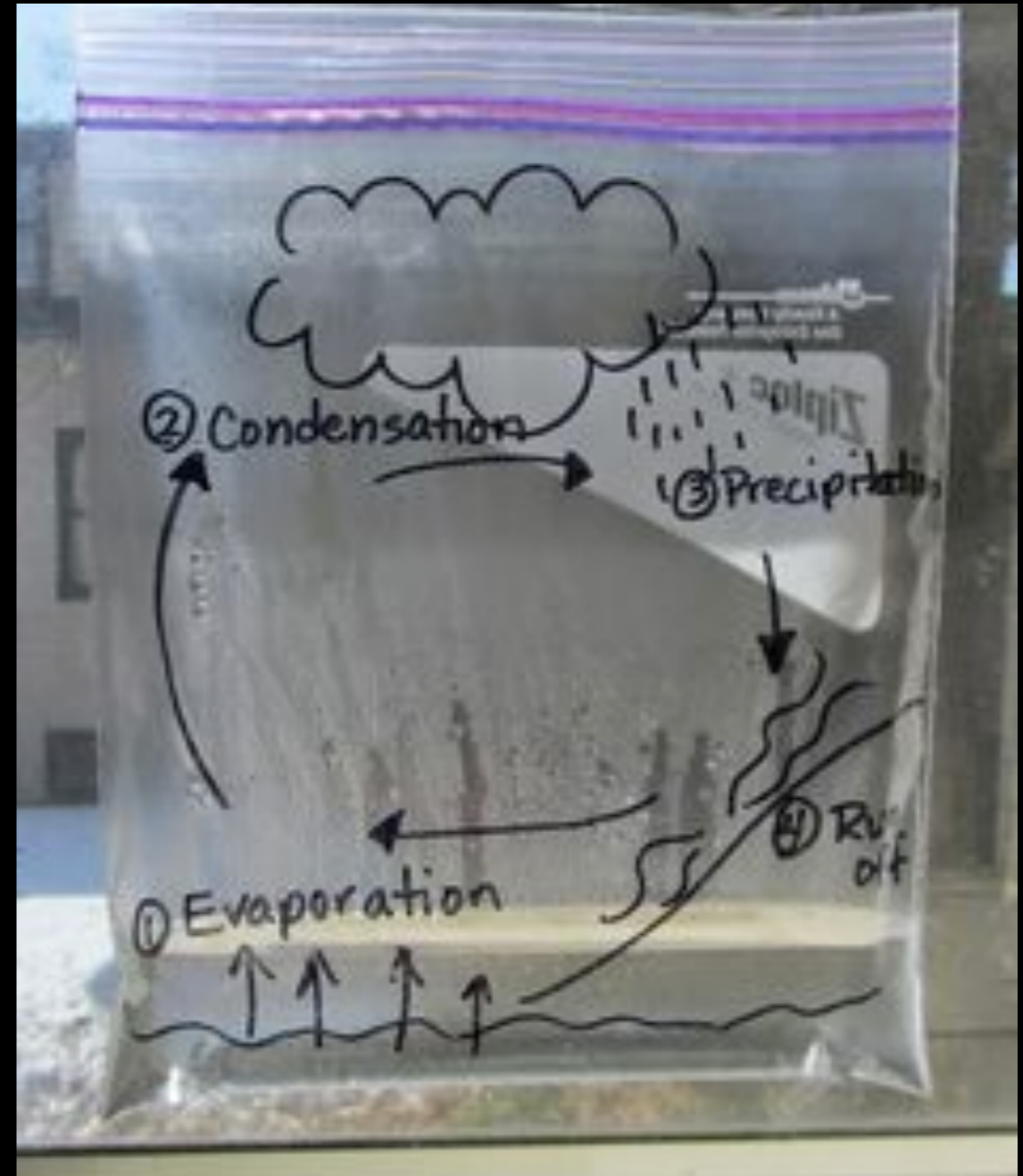
Wednesday 10.21.15



ecosystem in a jar

# Water System Demo

- Everyone has probably done the experiment where you put water in a bag, or jar, tape it to the window, and watch as the water heats up, rises, falls back down and repeats.
- Today we are going to start an experiment and will watch it over the next couple of weeks to see what happens...but first...



- <https://www.youtube.com/watch?v=AcjOEWm8uS4>



# Today

- Today we are going to create our own ecosystem in a jar, and watch as it grows over the next couple of weeks.
- On the next page in your notebook, title it Ecosystem



# Ecosystem in a Jar

- Write the following questions, leaving space to answer between each
- What is in the jar?
- How much water is in the jar?
- What has been planted in the Jar?
- Based on what you know about the water system, what will happen to the water in the jar? Will the plant grow?

# Ecosystem in a Jar

- Next, copy down the following table

Week	Date	Time (am/pm)	Observations
1	10.21.15		
2			
3			
4			

# Science

Thursday 10.22.15

# Today

- Your first 9 weeks is over tomorrow! Earlier this week, you received a grade on your science notebook! It was out of 20 points
- Tomorrow your notebooks are DUE for their first official quarterly grade.
- Your notebook grade will be out of 100 points.

# How Your Notebook will be Graded!

- Completion — are all the pages there? Did you skip pages?
- Table of Contents — do you have 8 pages reserved for the TOC? Is your TOC up to date with titles and page numbers?
- Page numbers — are all of your pages numbered? Do the page numbers in your TOC match the numbers on the pages?
- Titles — make sure each page has a title, and that it is also listed in your TOC.
- Skipped pages — you'll lose points if you skipped pages in your notebook.
- Incomplete notes — if pages in your notebook are incomplete, or if they weren't copied down correctly, you'll lose points!
- Neatness — your notebook will be graded on NEATNESS. If it is hard to read, falling apart, or has torn pages, you'll be graded down!



# Your Notebook

- Use this class as an opportunity to complete your notebook! Make sure it is ready to be graded for tomorrow! If everything is up to date, use some colored pencils to decorate it!

# Science

Friday 10.23.15

# Write

- Get out 2 sheets of paper.
- Put everything else away except for a pencil.
- Put your name on the paper

# Write

- Writing prompt: Answer the following prompt as completely as possible. Use your knowledge of the water cycle, and your imagination. I need at least a page of writing.
- You are a drop of water going through the water cycle. Where do you go? How do you get there? What processes do you go through? Include at least 3 phases of the water cycle. Make sure to include illustrations.

# Next

- There are 32 questions scattered around the room. With the remaining time, your task is to find and answer each card. You have 1 minute to pair up with a partner.