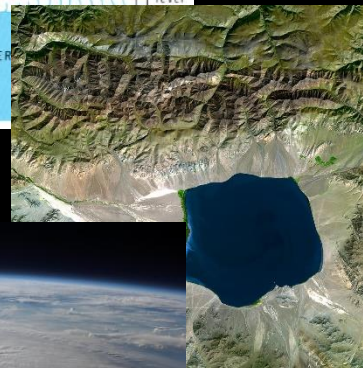
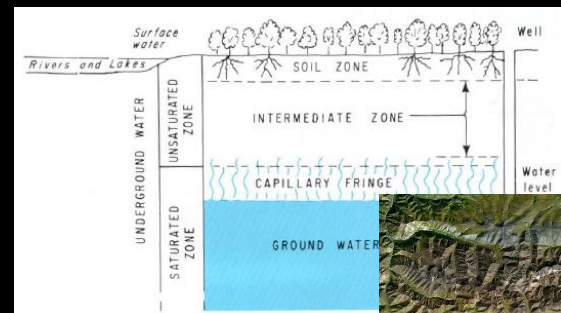
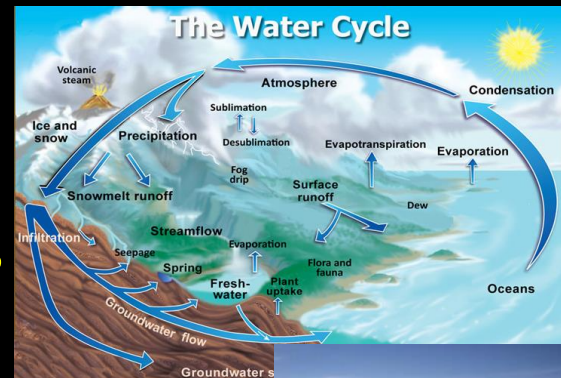


Water Unit



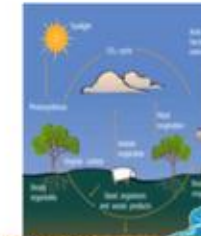
- 8 weeks of teaching material
- 7 PowerPoints totaling 233 slides
- 5 Lab Station Activities
- 9 Reading Comprehension Activities
- 2 Digital Scavenger Hunt Activities

- 1) Cycling of Matter
- 2) Hydrosphere and Cryosphere
- 3) The Water Table
- 4) Watersheds
- 5) Water and Weather
- 6) Meteorology
- 7) Natural Disasters



Cycling of Matter in Ecosystems: The Water & Carbon Cycle

- The Water Cycle
- The Carbon Cycle



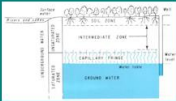
Hydrosphere and Cryosphere Lesson

- Earth's Water: Phases
- The Hydrosphere
- The Water Cycle
- The Cryosphere
- Cryosphere Effects



The Water Table Lesson

- Groundwater
- Saturated (Phreatic) Zone
- Unsaturated (Vadose) Zone
- The Water Table
- Natural Effects on the Water Table
- Human Effects on the Water Table



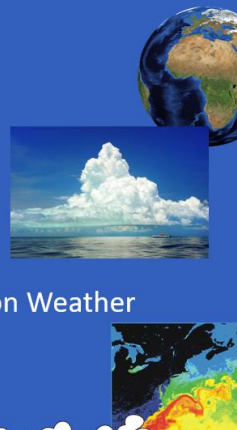
Watersheds

- The Water Cycle
- Watersheds
- Factors Affecting Stream Flow
- The Importance of Watersheds
- Threats to Watersheds
- What You Can Do



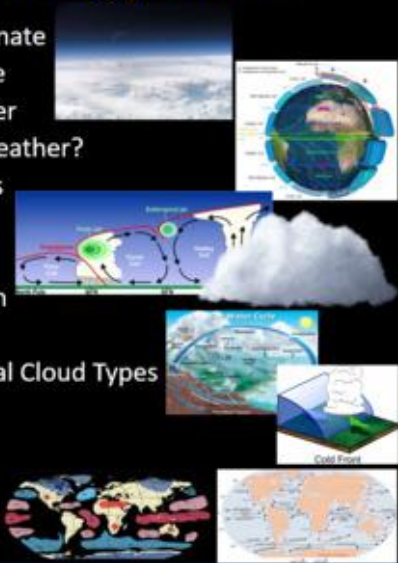
Water and Weather Lesson

- The Troposphere
- What Causes Weather?
- The Hydrosphere
- Effects of Water Bodies on Weather
- Oceans and Weather



Meteorology Lesson

- Weather vs. Climate
- The Atmosphere
- Types of Weather
- What Causes Weather?
- Convection Cells
- Coriolis Effect
- Jet Streams
- Cloud Formation
- Precipitation
- Ten Fundamental Cloud Types
- Storms
- Air Masses
- Ocean Currents
- Gyres



Natural Disasters Lesson

- Weather vs Climate
- Natural Disasters
- Meteorological
- Climatological
- Geological/Geophysical
- Hydrological
- Extraterrestrial
- Biological



The Water and Carbon Cycles: Lab Station Activity



7 Lab Station Activities to get your kids out of their seats and engaged in their learning

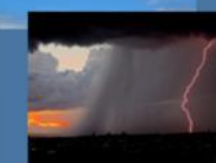
Watersheds Lab Station Activity





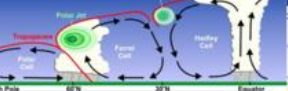
7 Lab Station Activities to get your kids out of their seats and engaged in their learning

Cloud Types Lab Station Activity


7 Lab Station Activities to get your kids out of their seats and engaged in their learning

Meteorology Lab Station Activity




7 Lab Station Activities to get your kids out of their seats and engaged in their learning

Natural Disasters Lab Station Activity





7 Lab Station Activities to get your kids out of their seats and engaged in their learning

The Water Cycle Scientific Reading Comprehension Article and Extension Activity – Grades 3-5



Water Softeners Scientific Reading Comprehension Article



Tap Water vs. Bottled Water Scientific Reading Comprehension Article and Extension Activity



How Weather Works Scientific Reading Comprehension Article and Extension Activity

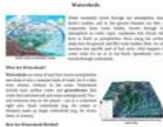


Water Pollution Scientific Reading Comprehension Article and Extension Activity



Improve your students' Literacy and Analysis Skills, use as an Emergency Substitute Plan, or create Applicability in your classroom

Watersheds Scientific Reading Comprehension Article and Extension Activity




Improve your students' Literacy and Analysis Skills, use as an Emergency Substitute Plan, or create Applicability in your classroom

Desalination for Drinking Water Scientific Reading Comprehension Article and Extension Activity



Improve your students' Literacy and Analysis Skills, use as an Emergency Substitute Plan, or create Applicability in your classroom

Types of Clouds Reading Comprehension Article and Extension Activity



Improve your students' Literacy and Analysis Skills, use as an Emergency Substitute Plan, or create Applicability in your classroom

Natural Disasters Reading Comprehension Article and Extension Activity



Improve your students' Literacy and Analysis Skills, use as an Emergency Substitute Plan, or create Applicability in your classroom

Device-Based Scavenger Hunt Cycling of Matter in Ecosystems



Includes

- 5 Unique Locations
- Online form submission
- Answer Key

Works on all smartphones, tablets, Chromebooks and laptops

- 100% Digital
- Simulations
- Quizzes
- Videos
- Games
- Word Scramble and more



Device-Based Scavenger Hunt Hydrosphere and Cryosphere



Includes

- 5 Unique Locations
- Online form submission
- Answer Key

Works on all smartphones, tablets, Chromebooks, and laptops

- 100% Digital
- Simulations
- Quizzes
- Videos
- Games
- and more



Who's it for?



- ✓ **Middle and high school teachers**
- ✓ **Teachers using NGSS**
- ✓ **Teachers who want to increase students' engagement and retention**
- ✓ **Teachers not looking to reinvent the wheel**

What You Get

Complete Lessons

- ✓ Make sure your students are on track
- ✓ Each lesson comes with a teacher and student version to keep them focused
- ✓ Lessons come with videos embedded right into your slides
- ✓ Includes 5E lessons

Interactive Activities

- ✓ Lab Stations
- ✓ Digital Scavenger Hunts
- ✓ Scientific readings on engaging subjects



Interactive Lab Station Activities

Little to no prep, just print and go

7 Engaging Lab Stations

Each station tests your students' knowledge and provides a fantastic learning opportunity for your kids to learn through assessment



1. Get Hands-On
2. Research
3. Explain Yourself
4. Applicability Reading
5. Test Your Knowledge
6. Learn From The Expert
7. Become the Question Master

Example Lab Station Cards

Station 1

Get Hands-On – Draw a diagram of a watershed. Include how water enters the watershed, where it goes, water bodies, and watershed boundaries. Be sure to label your diagram.

Station 5

Applicability Reading – Read the following information article and answer the associated questions found below in the *Applicability Reading* section of your passport.

Multi-station Lab – Cloud Types

Teacher Reference Sheet

Prepping the Lab Stations:

- This activity is super simple to prep. First, access the file and print off the following documents: *Applicability Reading*, *Learn from the Expert*, *Station Cards*, *Test Your Knowledge*, and *Passport* (1 per group).
- Once you've printed off the station cards, place them around the room, making sure to match the *Applicability Reading*, *Learn from the Expert*, and *Test Your Knowledge* documents with the correct station card.
- That's it!

Getting Started:

- This lab comes equipped with 7 stations (+ 2 rest stations where students can catch up on some of the work they hadn't been able to finish at a previous station). The groups should be given 6 or 7 minutes to complete each station.
- There should be 9 groups so that each group can be at 1 station at a time. 2 of the groups will need to start at a rest station. These groups can use this time to look through their passports and have a quick walk around the room to check out the different stations. If you are fortunate enough to have a smaller class, only create 7 groups and leave the two rest stations open to start.
- Groups proceed sequentially from station to station and will head to a rest station after stations 3 and 7.
- Preferably, each group should have a device that can access the internet. If this isn't possible, make sure there is at least 1 classroom computer, tablet, netbook, etc. available for use.
- Each group needs to fill in their passport for each station during the lab time. This passport is to be submitted at the end of class.
- Each question (where applicable) comes with the answer included.

This lab activity covers:

- Basic cloud types
- Rare cloud types
- Cloud formation
- Lightning
- Fundamental cloud types

Bonus Activities:

To ensure your students don't have any downtime between stations, your lab also includes a 10-word word scramble and word search, both with an answer key. You can use it as part of their mark, as a bonus so it's not mandatory, etc. However you choose to use it, it will ensure your students are always busy and never idle.

Note: For stronger classes, I give the word scramble and for weaker ones, the word search.

The Lab Stations:

- 1) *Get Hands-On* – using their creative skills, students are required to draw or build.
- 2) *Research* – using a classroom computer or their own device, students must research a specific question/issue surrounding the topic.
- 3) *Explain Yourself* – students write down an opinion to a question in paragraph form.
- 4) *Rest Station*

Scavenger Hunts

So Easy To Use

1. Print out the QR codes and put them around the room
2. Put your students into groups
3. Let them move from Location to Location as they complete the tasks
 - **All tasks are accessed via the QR Codes**
 - **5 Tasks Total per activity**
4. Have them submit their answers directly to your email via the online form

That's it!

Possible Scavenger Hunt Locations Include:

- Video analysis
- Simulations
- Quiz
- Finish the story
- Start the story
- Calculations
- Matching
- News article
- Opinion
- Word scramble
- Short answer
- Web research

Everything is hosted on my website, which creates consistency and ease of use.

Works with all devices that can scan a QR Code including Chromebooks



Save yourself
the **STRESS**
and Time

Spend your time wisely



Stimulate Student Interest and Spark their Curiosity



Develop Key Communication, Collaboration and Problem Solving Skills



Incorporate Technology and Increase Collaboration

