

THEME:	Creek Habitat and Salmon Enhancement
SCOPE & SEQUENCE UNIT:	Creek Orientation
OBJECTIVE:	My wonder of water
ACTIVITY 2:	Research a wonder question

Notes:	Inside
Teacher Prep.:	Have wonder questions from Part 1 handy.
Time:	55 minutes total; 15 minutes intro & create poster, 25 minutes research, 15 minutes reflection.

Skills:

- ◆ Reading
- ◆ Writing
- ◆ Critical and creative thinking
- ◆ Ecological literacy
- ◆ Media literacy

Objectives:

- ◆ to conduct research specific to question of water interest
- ◆ to initiate “how we can learn” about water

Materials:

Flipchart paper to list wonder questions as a poster
 Student Page
 Access to Internet, library, classroom resources

Introductory Discussion:

Recall with students the visit to the creek and their wonder questions. Make a list of what they listed about their knowledge of water, What we Know, in one column and beside that another list, What we Wonder. Dialogue on ways to research the answers to their question.

Students research their question in partners and complete their student page.

Reflection Discussion:

As a class, share findings to wonderings. What is surprising what the research revealed? Did you expect something different? Did it lead you to other wonderings? Have students post their science sheet on the wall, or on a wiki page.

Student Page:

Wondering about Water

Exemplars:

What we Know and Wonder Poster; Student Page

Wondering About Water

Add an image if you think that would be helpful to explain the answer.

Partners:

Our

Question:

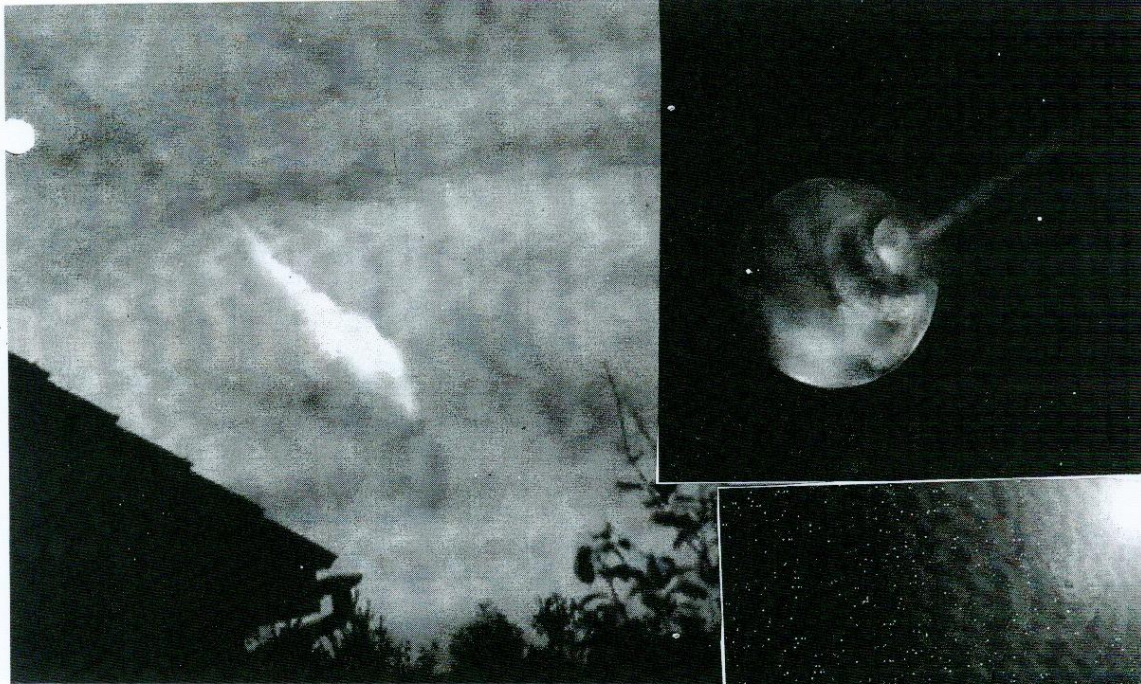
Answer:

What We Know

- we can drink it
- Can't live without it
- too much you get sick
- Some is clean, some isn't
- fresh water goes into salt water
- water evaporates
- tides are caused by the moon
- water is 2 parts Hydrogen 1 part oxygen
- animals live in it
- we can swim in it
- seawater is salty, fresh water isn't
- mammals can't breathe under it
- it's rich with life
- humans are 70% water
- oil + water don't mix

WATER What We Wonder About

- How did all the water on earth get here?
- Why are there tides?
- Why do we pollute/litter it?
- Why is the ocean salty but other water isn't?
- How do creatures live in cold sea water?
- How does the atmosphere get so heavy → rains?
- How does it rain for a long time?
- Why is the polar ice cap frozen?
- How does ice have oxygen in it?
- Why do salmon go in the creek?
- Where does Ganges Creek come from?
- How do lakes get here?
- Why do we need water?
- Why does the creek level fall?
- What kind of animals live in it?
- What is the deepest part of the ocean?
- What kind of sea creatures live in the Marian Trench?
- Why is there so much water?
- How did the ocean form?
- What is it made of?
- Why is the water grey?
- Why are there plants in the creek?
- Does salt water go into fresh?
- How does water become high tide/low tide?
- What's the difference between salt water + fresh?
- Why is there salt + fresh water?
- How does water change colour?
- How does water get made?
- Why is the ocean water near Salt Spring warmer than that near Tofino?
- What kind of dangerous creatures are in the water near Salt Spring?
- Why are there so many rocks in the water?
- Can we drink too much water?



Pictures of comets striking Earth.

Partners: Madeline + Hope

Our question: How did water get here?

Answer: There are two sources that are very commonly thought of. #1. Outgassing by volcanoes. Oxygen and hydrogen are easily combined. #2 Comet strikes. Lots of comets are composed mostly of ice and rock. During the accretion, impacts were frequent. When the planet began to cool, it started to rain! It rained hard! The low spots filled with water and became oceans. In time, another asteroid hit! Then it would cool.... This was repeated