



# Water All Year Long

(Adapted from *House of Seasons* Project WET)

**Summary:** Students learn about the three phases of water: solid, liquid, and gas. They see examples of them and use instruments to represent them as they try to solve the riddle, "Which Season Am I?"

**Grade:** First

**Subject Areas:** Science, Social Studies

**Activity Materials:**

- Picture Book of Clues to guess the seasons.
- Some sort of easel for the book to let kids see it.
- Book of riddles (text only)
- Poster of seasons
- 8 rainsticks
- 16 boomwhackers
- 8 sets of clackers

**Common Core Standards and Benchmarks**

Reading Standards – Informational Text

1. Ask and answer questions about key details.
4. Ask and answer questions about meaning of words.
6. Distinguish between info from text and illustrations.

**NexGen Standards and Benchmarks**

LS1.C Plants need water and light.

**NM Science Standards and Benchmarks**

I.I.1.1. Make observations, develop simple questions, and make comparisons of familiar situations (e.g., What does the seed look like when it starts to grow?). *compare water in different seasons*

II.I.1.1. Observe that the three states of matter (i.e., solids, liquids, and gases) have different properties (e.g., water can be liquid, ice, or steam).

**Social Studies Standards and Benchmarks**

Geography II.II-C.1.1 Identify examples of and uses for natural resources in the community, state, and nation.

Geography II.II-F.1.1 Describe the role of resources in daily life.

Econ IV.IV – A. 1.1 Understand how resources are limited and varied in meeting human needs.

Econ IV.IV – A. 1.2 Define and differentiate between needs / wants.

<b>Our goals</b>	<b>How our goals fit</b>
We live in a desert (9" rain).	Water is a very limited resource in ABQ! With so little rain and so many uses.
We get our water from the river and underground.	Whenever we see a picture of water in a faucet or hose or in food, we can ask – "Where did that water come from?"
How we conserve or protect water.	Water is precious. What is the difference between need and want? How to save?

# Water All Year Long

## Talking Points:

- There are three states of water.
- We get more sunlight during some seasons than other seasons.
- Changes we see in water and how we use it during the year are a result of how much sunlight we get. Use plants as an example.
- Water resources are limited (especially here in the desert), so we have to use water responsibly so we can be good citizens. What are examples of water we need? What are examples of water we just want, but we don't need? (long showers, deep baths)
- They are looking for clues in this big picture book. They can use illustrations and words to help them. When you ask them which season it is, ask for examples of words and pictures that helped them figure it out. *This is important because it's common core.*

## Warm Up:

Go over the three phases of water with students as you teach them how to sing the chorus to the Solid, Liquid, and Gas song. Use examples of water in each stage. What can we do with liquid water, solid water, and gas water or water vapor. Explain "Melt" "Evaporate," "Condense," "Freeze."

Use the first verse, asking them to make the motions and say the word when they hear a phase of water in the song. The verse is:

My ice water's missing this morning,

There's no SOLID ice in my glass.

It melted and became a LIQUID.

Then evaporated to GAS!

## Activity Part I:

Explain that you are going to try to solve the riddle, WHICH SEASON AM I? Show the poster and go over the seasons – what changes in each picture? (clothing) Why does clothing change? Ask students why they think it is hotter in the summer. What makes them hotter? Will that cause changes in plants during the year? Do they think that people might change the ways they use water in different seasons? Could they solve the riddle, "What Season Am I?" using only clues from text and illustrations about water and how we use it?

## Activity Part II:

Put the students into 3 lines of 8 or fewer. (More instruments in case there are more than 24 kids?)

Explain that each row will receive an instrument to make the sound of one phase of water. Explain that misusing the instruments means they will have to become the audience and will have to give up their instrument. Show "Stop" with your hand and voice.

Introduce the instruments in whatever order you choose.

- When you hand out the rainsticks show them the proper use - don't flip them quickly or you can't hear anything. Say "liquid" together, then ask them to pick up their rainstick and make the sound while you count out five seconds on your fingers.
- When you hand out the clackers ask them to click together and then with a neighbor to get the 2 syllables of solid. Count out five seconds on your fingers as they say "solid" five times.
- When you hand out the boomwhackers show them how to make a sound by hitting them against the ground, not each other. Say "Gas." Ask them to play them softly, then hard. Ask them to play in-between loudness while you count seconds with your five fingers.

## Activity Part III:

Read the first clue of the Riddle Book. Ask them if they can guess the meaning of the blue colors. Did they figure that out from the text or the illustration?

- Whenever you see water from a faucet or hose, ask, "Where did that water come from?"
- When there is a plant, ask them why the person is watering the plant. Also, mention that plants make food using air, water, and sunlight.

Go over the word at the top. Then ask the question, "Which phase of water is this?" Ask them to all say the phase together. Ask that group to pick up their instruments and play for 5 seconds. Count it off on your fingers.

Ask students to fill in the blank with the correct season as you read the final clue for that season. Ask for examples of pictures or words that helped them figure it out.

Explain that students should pass their instrument to the group behind them (or on their left) while the final group sends their instrument forward (or to the right). If you are in a circle, then ask students to move clockwise.

Now do the next 2 seasons, the same way you did the first season.

Afterwards, ask students to change instruments again, or move clockwise, as they did before. You will do the last season using this instrument.

When you have finished the book, tell the students that you are going to sing the solid, liquid, gas song once more, this time using the instruments. Explain the word "vapor." This time sing these verses:

Chorus –Water Water It's solid and liquid and gas, oh yes! Water Water, It's solid and liquid and gas.

On earth there are three states of water.

It's LIQUID in all living things.

It evaporates into VAPOR,

In clouds it condenses again. (to LIQUID)

## Chorus

A cloud can hold some LIQUID water.

The extra just falls to the ground.

On warm days it rains, but in winter,

It freezes, and snowflakes abound. (That's SOLID.)

## Chorus

Here is the chorus in Spanish:

Agua, agua sólido, líquido y gas muy bien, Agua, agua sólido, líquido y gas muy bien

Collect the instruments.

### Wrap Up – How to Conserve Water

Ask students if we get much water here in the desert. Mention drought. Do they think water is important?

Something we all need to think about when we use water is, "What is the difference between *need* and *want*?" *Need* is the water you drink when you're thirsty. Don't stop drinking water! *Want* is the water that is running from the faucet while you're brushing your teeth. Do you really need that water to get your teeth clean? You don't even really want it. What you want is to not think about it. But we need you to think.

Ask for ideas. Go over short showers, shallow tubs, never let water just run and run from the faucet. Outside they should never water plants in the hot part of the day. Do it at night when it is cool. Why?

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Water Utility  
Authority

# CLUES – Read these with the book

## (Winter)

Which season am I?

In the Sandia mountains, **SNOWFLAKES** fall gently, while children slide on inner tubes down the hills. Which phase of water is SNOW?

**ICICLES** hang off the roofs of homes. Which phase of water are ICICLES?

It's so cold, you can see your **BREATH** when you **SING** holiday songs. Which phases of water are in your BREATH?

Don't worry about that **LEAKY NOSE!** Which phase of water is your LEAKY NOSE?

You can warm up by slurping down a bowl of warm, spicy posole, or matzo ball **SOUP**. Which phases of water make are in SOUP?

Nights are cold and long; grandfathers **TELL STORIES**. Which phase of water comes out when you TELL STORIES?

I'm the coldest season of the year, I'm . . .

## (Spring)

Which season am I?

It's time to plant seeds and **WATER** them so they will grow. Which phase of water is in the watering can?

**WINDS** blow the skirts of Cinco de Mayo dancers. Which phase of water is the WIND?

**NECTAR** of flowers feeds the hummingbirds who are returning from their winter home in Mexico. Which phase of water is NECTAR?

Watch out for **HAIL** storms that tear the flowers! We hope the fruit trees' blossoms are safe. Which phase of water is HAIL?

The only place we want ice now is in the **ICE CUBES** that cool our lemonade after a hard day of house cleaning. Which phase of water is ICE? How about LEMONADE?

Open the windows to let the fresh **AIR** in! Which phase of water is AIR?

Remember to **WASH** the sheets and curtains so that everything feels clean and new. Which phase of water do you use to WASH?

I'm the freshest season, I'm . . .

## (Summer)

Which season am I?

It's so hot that everyone is **SWEATING**. Which phase of water is your SWEAT made of?

Cool **AIR** from your air conditioner cools you down. Which phase of water comes out of your AIR conditioner?

Try a banana **POPSICLE** or that cherry **SNOW CONE** to cool you even more. Which phase of water is a POPSICLE? A SNOW CONE?

If only the **RAIN** would come and cool the land. Which phase of water is RAIN?

In the pueblos, **RAINBOW** dancers move to the beat of the drums. Which phases of water make a RAINBOW?

Now the seeds you planted in the spring are plants. Be sure to **WATER** your plants when it is cool, not during the hot part of the day!

I'm the hottest season, I'm . . .

## **(Fall)**

Which season am I?

In the mornings, **FROST** decorates the windshields of your bus or car. Which phase of water is FROST?

Hot **AIR** balloons float over our homes after they launch from the Balloon Fiesta. Which phase of water fills a hot AIR balloon?

Cranes have flown down from Canada. They **CALL** to each other while they eat the corn from the corn maze. Which phase of water is in the crane's CALL?

Be careful! Don't step on that **ICE**-covered puddle while you watch the cranes or balloons overhead. Which phase of water is **ICE**? Which phase is the water under the ice?

You slipped! But don't cry. If you fall on the playground, the nurse can **WASH** your cuts. Which phase of water are your **TEARS**? Which phase of water comes out of the faucet?

On the weekend, you can go to the State Fair and drink delicious **AGUAS** while you rest your aching feet. Which phase of water is in the AGUAS?

I'm the crispest season, I'm . . .





