EnviroKids!

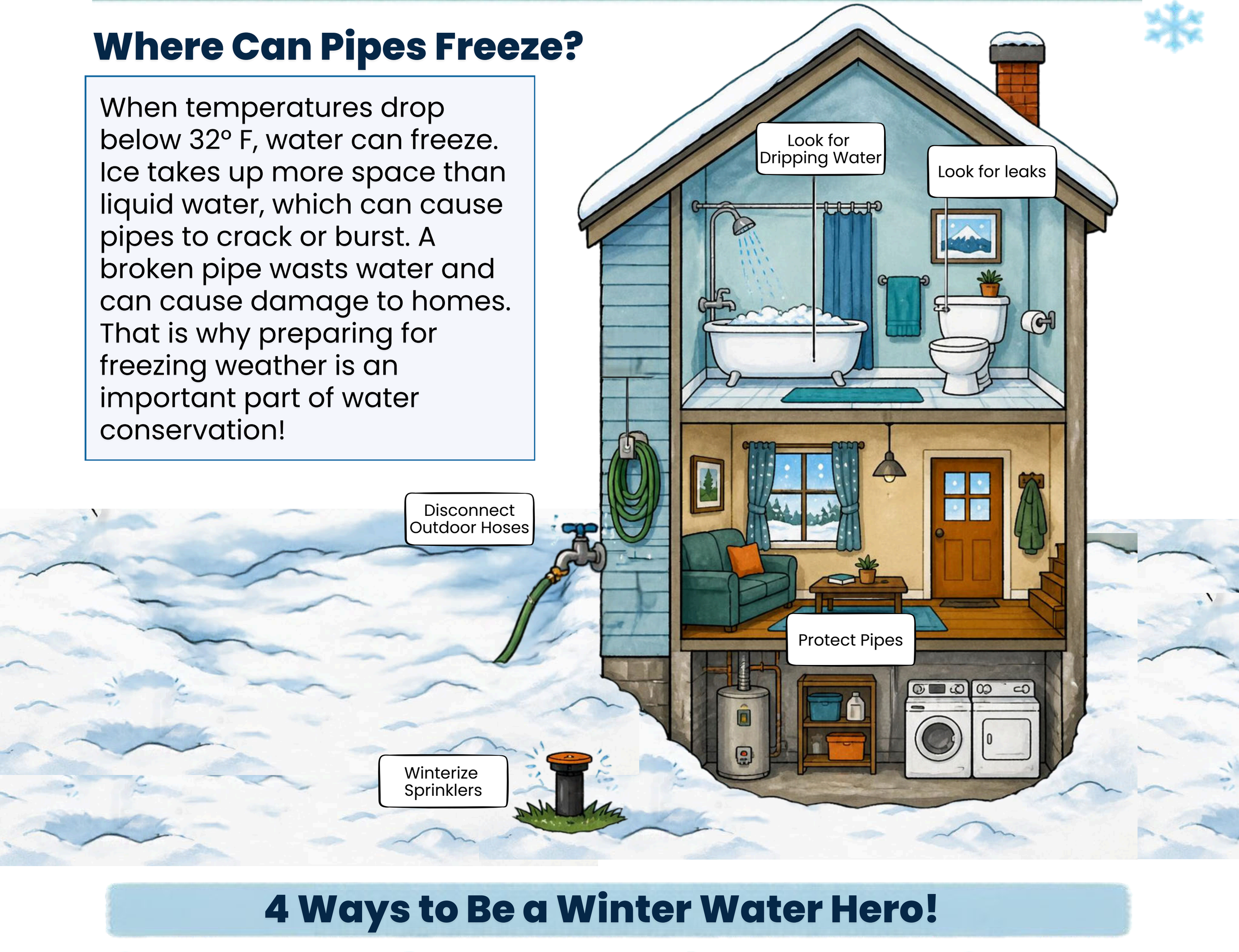
Educational Tools for Tomorrow's Environmental Heroes

ISSUE CREATED BY
WATER WISE SPOKANE

WINTER WATER WATCH

Where Can Pipes Freeze?

When temperatures drop below 32° F, water can freeze. Ice takes up more space than liquid water, which can cause pipes to crack or burst. A broken pipe wasts water and can cause damage to homes. That is why preparing for freezing weather is an important part of water conservation!



4 Ways to Be a Winter Water Hero!

1 Disconnect the Hose



Take off hoses and store them inside.

2 Protect Pipes



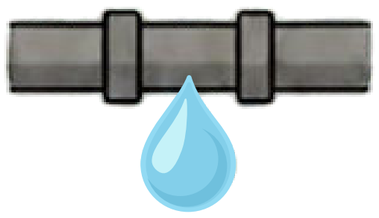
Insulate pipes in cold places like basements and crawl spaces.

3 Winterize Sprinklers



Drain sprinkler systems to keep pipes from freezing and cracking.

4 Look for Leaks



Check for drips and fix leaks right away.

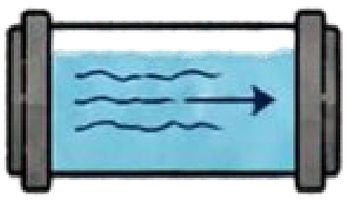
Did You Know?

A faucet dripping once every two seconds can waste more than 1,000 gallons of water in a year!

What Happens When Water Freezes?

When water freezes, it expands and takes up more space. Inside a pipe, there isn't extra room for the ice to grow. That extra pressure can make pipes crack or burst!

Water Flow



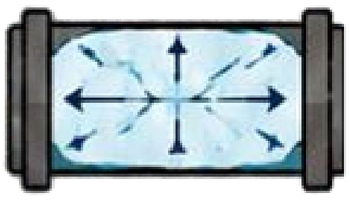
Water moves through time pipe.

Freezing



It gets cold and water turns to ice.

Expansion



Ice expands and presses on the pipe. Pipes can crack or burst!

Why can freezing water cause a pipe to crack?

_____

_____

_____

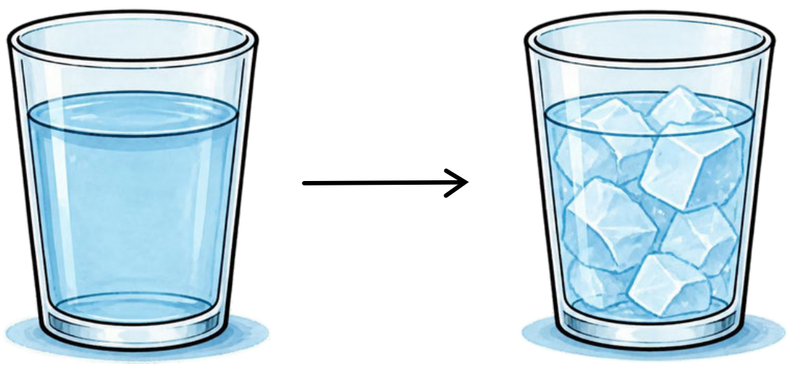
The Freeze Test!

Try this experimen at home!

Step 1
Fill a small freezer safe container halfway with water.

Step 2
Mark the water level on the outside.

Step 3
Place it in the freezer and watch the expansion!



Before

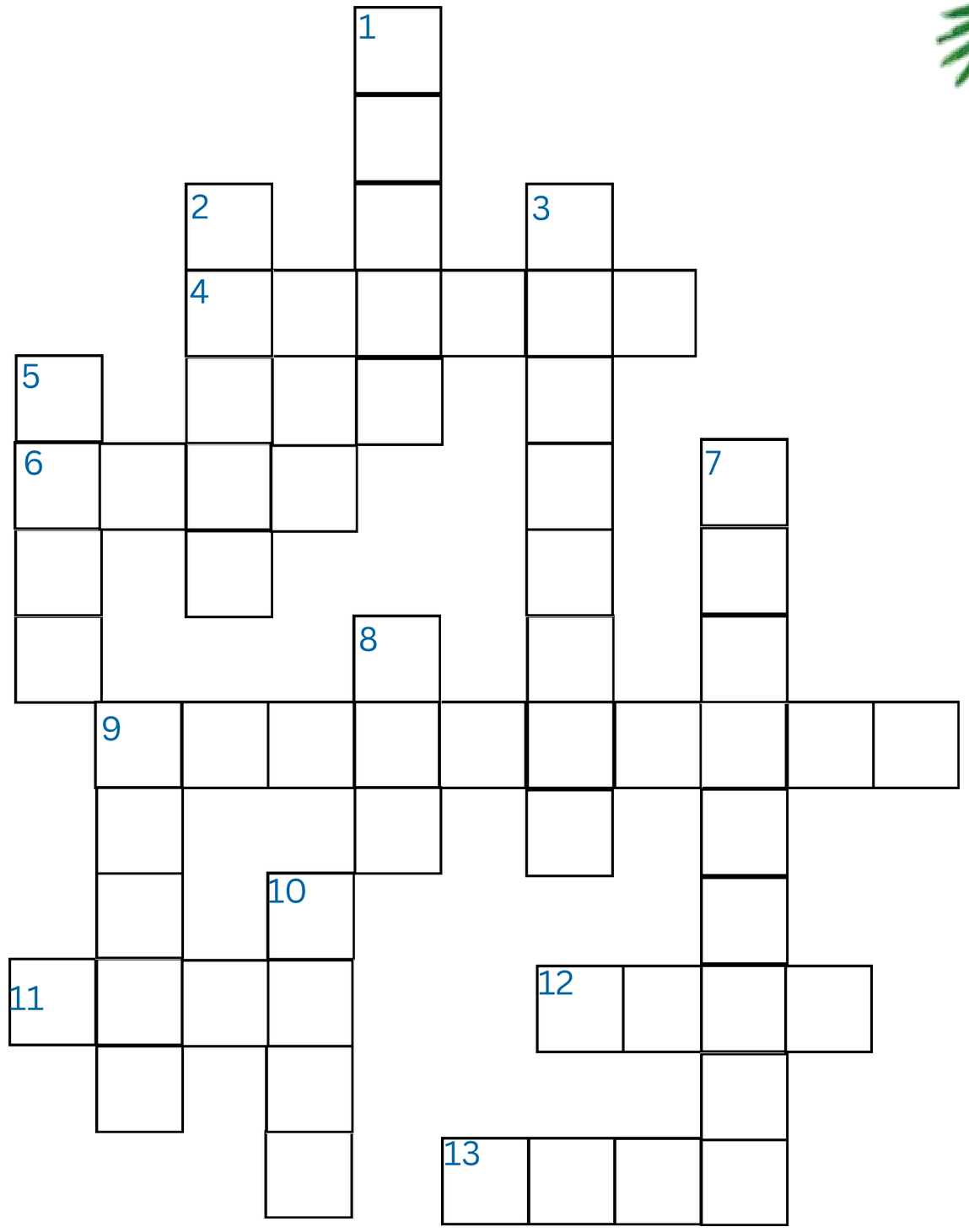
After

Be a Winter Water Hero!

Before the snow gets deep, I can...

- ☐ I reminded an adult to disconnect the outdoor hoses.
- ☐ Look for dripping faucets or running toilets
- ☐ Find one way to use less water at home

Winter Water Crossword



ACROSS

4. **To tell an adult about a water problem**
6. **A flexible tube used outdoors**
9. **To remove a hose from an outdoor faucet**
11. **A tube that carries water**
12. **What ice does when it gets warm**
13. **White flakes that fall from winter clouds**

DOWN

1. **Small drops falling one at a time**
2. **Tiny ice crystals on solid surface**
3. **When water turns to ice**
5. **When frozen water warms up**
7. **Water moving through a pipe or hose**
8. **Frozen water**
9. **Where water flows away**
10. **Water escaping where it should not**

My Winter Water Promise

I can conserve water by...

_____

I can prevent frozen pipes by...

_____

Water Defender:

_____

Envirokids is a collaborative effort among multiple environmentally focused agencies in the Spokane region working to provide locally relevant educational resources to teachers and families.

WATER WISE SPOKANE