



# MISSION: MAKE A SPLASH

## MISSION GOAL:

Learn about **water** by mixing it with other things and putting it on different materials.

## MISSION EQUIPMENT CHECKLIST:

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|--|--|
| <input type="checkbox"/> Small Plastic Bowls | <input type="checkbox"/> Note Paper        |
| <input type="checkbox"/> Water               | <input type="checkbox"/> Sandpaper         |
| <input type="checkbox"/> Stirrer Scoop       | <input type="checkbox"/> Paper Towel       |
| <input type="checkbox"/> Journal             | <input type="checkbox"/> Wax Paper         |
| <input type="checkbox"/> Pencil/Pen/Crayons  | <input type="checkbox"/> Aluminum Foil     |
| <input type="checkbox"/> Salt                | <input type="checkbox"/> Water Chart       |
| <input type="checkbox"/> Pepper              | <input type="checkbox"/> Watercolor Paper  |
| <input type="checkbox"/> Cornstarch          | <input type="checkbox"/> Watercolor Paints |
| <input type="checkbox"/> Pipette             |  |



## MISSION IGNITION

1. All living things need **water**. Fill a small plastic bowl with **water**. What does the **water** look like? How does it feel? Warm? Cold? Slippery? What are some places where you can find **water**? What are some things you use **water** for?
2. You can **mix water** with things to make other things. Fill two more small bowls with **water**. Record all of your predictions in your journal. What do you think will happen if you add a scoopful of salt to the first bowl and stir? Why? Try it. What do you think will happen if you add a scoopful of pepper to the second bowl and stir? Why? Try it. What do you think will happen if you add a scoopful of cornstarch to the third bowl and stir? Why? Try it. What happened when you added in each item and stirred? What are some other things you **mix with water**?



## CREW BRIEFING

- View and discuss *The Zula Patrol* episode “Blubglub”.

<https://zula.com/126B>

**Q:** What are some ways the Zula Patrol has fun with **water**?

**Q:** Why does Multo say **water** is so important?

**Q:** What are three things that are made of **water**?

**Q:** Where do we find **water**?

**Q:** What do we use **water** for?

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## MISSION BLASTOFF

**1. Water** reacts differently on different surfaces. Fill a small bowl with **water**. Lay out one piece of each of these materials from the small zip bag: note paper, sandpaper, paper towel, wax paper, and aluminum foil. Use the chart that lists each material to make predictions and observations. Touch each of the different materials. What does each feel like? What do you think will happen if you put a drop of **water** on the note paper? Why? The sandpaper? Why? The paper towel? Why? The wax paper? Why? The aluminum foil? Why? Record all of your predictions on your chart. Use the pipette to place one drop of **water** on each of the materials. Observe and record what you see on your chart. Does the **water** drop hold together or spread out? How close were your predictions? What is the difference between the wax paper and the note paper? What is the difference between the paper towel and the aluminum foil? What do you think will happen if you put several drops of water on a material? Try it.

**2.** What other materials can you try? Gather some more materials and write down your predictions in your journal, then drop **water** on each material and record your observations.



## MISSION SPIN-OFFS

**1. Water is Life:** All living things need **water**. Ever since the beginning of time, humans have collected **water** to drink, bathe, and clean. Today we have computers, pumps, and miles of pipes to do the work. Look for information about how **water** travels from the source to our homes. Along the way, explore wells, pumps, and filters.

**2. The Color of Water:** Fill a small bowl with **water** and look at it. What color is **water**? Look at the images on the back page. What color is **water**? Why do you think the color of **water** looks different? Use watercolor paper and watercolors to create a picture of your favorite **water** scene. Use as much detail as possible.



## MISSION ACCOMPLISHED

What did you discover? How? What conclusions can you draw about **water**? What questions do you have? What else would you like to know about **water**?

### GLOSSARY:

**Liquid** - a state of matter in which the molecules move fluidly, coming together and breaking apart; the molecules in a liquid move more quickly than those in a solid and more slowly than those in a gas; a liquid will take the shape of its container and can form a surface

**Mixture** - a combination of two or more substances in which the substances don't change; mixtures can be separated into their original parts

**Water** - necessary for every living thing to exist; covers much of Earth; makes up a large part of the bodies of plants and animals; oceans, lakes, and rivers are made up of water; a water molecule is made up of two hydrogen atoms and one oxygen atom, known as H<sub>2</sub>O

