

**Learning Intention:** We are learning about the properties of water.

## Activity One: What dissolves in water?

Some materials dissolve in water, and some do not. Substances that dissolve in water are called soluble, and substances that do not dissolve in water are called non-soluble.

**Question:** What dissolves in water?

**You need:** 4 glasses of warm water (you need to be able to see through them), 1 teaspoon of salt, sugar, flour and pepper.

**Hypothesis:** Which substance do you think will dissolve and why?

**Test:** Place 1 teaspoon of each substance into each cup of water and stir. Wait for the substance and water to settle.

**Observe and record:** Look carefully through each glass. Which glass is clear?

**Reflect:** Was your hypothesis correct?



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# Poihipi Team - The Wonder of Wai

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## Activity Two: Ice Melting Experiments

**Hypothesis:** One of the mixtures makes ice melt faster.

**You need:** ice cubes, muffin tins or containers, salt, sugar, dirt, baking soda.

**Prediction:** Which mixture will make ice melt faster?

**Test:** Put about 4 ice cubes in each muffin cup. Add 3 tablespoons of salt to one cup on top of the cubes, 3 tablespoons of sugar to another cup on top of the ice cubes.

**Observe and record:** Which ice cubes melt first?

**Reflection:** Was your prediction correct?

[Big Science Idea](#)



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# Poihipi Team - The Wonder of Wai

**Learning Intention:** We are learning to explain the effect of salt on ice.

## Activity Three: Homemade Ice Cream in a Bag

**You will need:**

- 6 tbls rock salt (or regular salt if you don't have rock salt)
- Lots of ice cubes
- 1/4 tsp of vanilla essence
- 2 ziplock bags - 1 large, 1 medium
- 1 cup full cream milk OR cream
- 1 tbls sugar
- Sprinkles (optional)



**Before Question:** I wonder why we add salt to the ice?

**After Question:** What did the salt help the ice to do? (It helps to lower the freezing point of the ice)

**Test:** Make 2 bags of ice cream but leave the salt out of one bag. Observe what happens. Did the bag of ice without salt still become ice cream? How long did it take?