# Activity

Investigation to observe the freezing/melting point of different materials.



You will need the following:

At least three materials to test from:

butter, coconut oil, candle wax, chocolate, water, juice, olive oil

- Mini zip lock bags
- Room temperature
- Fridge
- Freezer
- Radiator

What to do:

- Put a small sample of each material into a bag.
- You will only need one sample of each material.

For each test location:

- Measure the temperature at the location (inside the fridge/freezer).
- Leave the material for 3 to 5 minutes.
- Observe the state of the material - is it solid, semi-liquid or liquid? (S SL L).
- Record the observations.

Repeat at a new location.

Results:

| Test location | Room | Fridge | Freezer | Radiator (warm location) |
|---|---|---|---|---|
| Water | L | L | S | L |
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What did we find out?

Which materials were solid at room temperature?

Did any of those materials melt when you put them in a warm location?

Which materials froze and were solid when you put them in the fridge?

Were there any materials that remained a liquid even when placed in the freezer?