

### Test how fat makes ice cream creamy!

Make and shake two ice creams in a bag to discover the secret to a creamy, smooth texture.

#### Experiment

Make it fair! To make this a fair test, only 1 thing can change. We call this a **variable**.

##### Variable (thing that will change):

- ✓ Fat

Test 1:

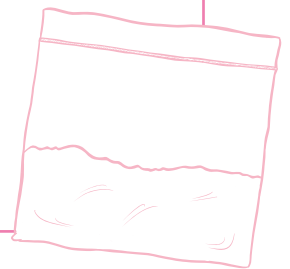
Milk

Test 2:

Milk and cream

##### Controlled conditions (things that stay the same):

- ✓ Sugar type and amount
- ✓ Method
- ✓ Freezing time



#### Ask

What questions/pātai do you have about fat and how it impacts creaminess?

#### Predict

What do you think will happen?

We think test 1 will be

We think test 2 will be

Use these words to help: smooth, icy, thick, soft, thin, hard, creamy.

Why do you think this?

## Test

### Do your experiment!

- ✓ Mix ingredients in small bag
- ✓ Place ice and salt in large bag
- ✓ Place small bag into large bag
- ✓ Shake and test

### What do you notice

#### Test 1

#### Test 2

#### Feel

- |                              |                              |
|------------------------------|------------------------------|
| <input type="radio"/> Smooth | <input type="radio"/> Smooth |
| <input type="radio"/> Rough  | <input type="radio"/> Rough  |

#### Thickness

- |                             |                             |
|-----------------------------|-----------------------------|
| <input type="radio"/> Thin  | <input type="radio"/> Thin  |
| <input type="radio"/> Thick | <input type="radio"/> Thick |

#### Creaminess

- |                                       |                                       |
|---------------------------------------|---------------------------------------|
| <input type="radio"/> Very icy        | <input type="radio"/> Very icy        |
| <input type="radio"/> Slightly icy    | <input type="radio"/> Slightly icy    |
| <input type="radio"/> Slightly creamy | <input type="radio"/> Slightly creamy |
| <input type="radio"/> Very creamy     | <input type="radio"/> Very creamy     |

### Suggested roles:

#### Sensory Scientist:

Observes experiment and records results

#### Flavour Chemist:

Measures and mixes ingredients

#### Texture Technician:

Shakes bag

#### Hygiene Hero:

Manages health and safety

## Explain

### What did you learn?

Your results:

What does this mean?

### Was your prediction correct?

Yes  No

Do you need to change anything for next time?

