

# Making a Prediction

USING DAIRY PRODUCTS IN A SCIENCE EXPERIMENT

## ESSENTIAL QUESTION

# How do we make a prediction

### WHAT ARE WE LEARNING?

- How to make a prediction
- The process of following steps to complete an experiment

### TRY THIS WITH

- Years 0-3
- Students who have an interest in experiments
- Students who love hands on activities

## FIND

What                      Compare  
Read                     Observe  
Retell                    Express

Discuss the word 'prediction' and explain that another way to describe a prediction is a thinking guess.

Conduct a mini experiment and generate plenty of discussion.

Place a gummy bear (or jube type sweet) into a cup of water.

Ask what the children think will happen.

Discuss that this is called making a prediction, and that you will be watching over the next day to see what happens to the sweet.

Record students predictions on a Google Doc or in a photo format via Instagram.

Use Overgram to "write" predictions on the photos.

## APPLY

Experiment              Focus  
Perform                 Cause and effect  
Classify                 Plan

Revisit the experiment. Before revealing what has happened to the sweet revisit the predictions and remind students what they thought was going to happen.

Show the students the sweet in water and discuss what has happened (the sweet should have absorbed the water and expanded in size).

Discuss the predictions. Were they correct?

Watch the YouTube video that shows a time lapsed version of the experiment and discuss what science has happened.

Introduce the term 'osmosis' as part of the reaction that has occurred.

## PRODUCE

Choose                    Experiment  
Solve                     Justify  
Consider                 Predict

Explain to the students that you will attempt the experiment again, this time using a different liquid. Use milk as one of the liquids and let students choose the other liquid.

Prior to placing the sweets into the jars make sure that the students make predictions - using the printable cards.

Capture the predictions on Instagram. Keep the photographs and prediction cards until after the experiment and then discuss what happened, who had the correct predictions etc.

Try the exploding milk experiment.



## SUCCESS CRITERIA

Students can check they have successfully completed the task by:

- Making a prediction
- Explaining what it is that they have tested
- Checking to see what

PRINCIPLES	VALUES	KEY COMPETENCIES	LEARNING AREAS	WORD BANK	RESOURCES REQUIRED
Learning to learn Future focus	Integrity Respect Diversity	Thinking Managing self Relating to others	Science Technology	Absorb Predict Expand Experiment	Rosie's Education YouTube Prediction cards