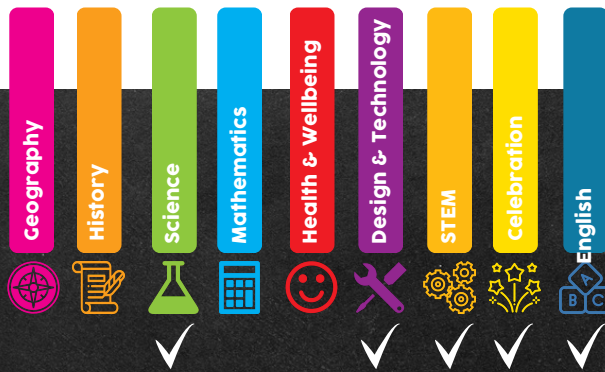


# Supreme Incursions

## Skittle Rainbows



Independent Inquiry



30 Minutes



Grade Foundation+

This is a great way to explore the basic principles of mixing materials. As an extension, you can use it to introduce the more complex principle of **dissolving**, at a molecular level (grades 5 and 6).

### The aim

- To understand that mixing materials can create change.
- To learn about 'dissolving' and what it looks like.



Remind students that we do not ever eat Science ingredients unless instructed to do so by an adult.

### What you will need

A plate (one per child)

Skittles

Warm water

One pipette per child (optional)



### Watch the video

Scan the QR code to watch the instructions



### Follow these steps

**Step 1** Organise the Skittles in a circle around the edge of the plate in a pattern.

**Step 2** Carefully pour water into the centre of the plate. Ensure there is enough water to go passed the Skittles and to the edge of the plate.

**Step 3** Patiently wait and watch the colours move towards the centre of the plate.

**Step 4** Try changing the arrangements for different outcomes. You might even like to film the process in time-lapse to watch this reaction with speed!

### The Science behind it

Skittles are coated with sugar and food colouring. When you add water to Skittles, the sugar and food colouring starts to **dissolve** and move into the centre of the plate. The substance being **dissolved** (Skittles) is called the **solute** and the liquid doing the **dissolving** (water) is called the **solvent**. In order for the skittles to dissolve, the **molecules** of the skittles interact with the **molecules** of the water.