

Name:	Date:
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Experiment: Solubility of food components

Where does the carrot's colour come from?

Equipment

1 grater, 2 small beakers, 1 spoon

Materials

Carrot, water, colourless cooking oil

Introduction

We will use the following experiment to find out more about the orange colour in carrots.

Experiment

- Use the grater to grate a piece of carrot.
- Put the grated carrot into a beaker; it should only cover the bottom.
- Now pour approximately 2 cm of water into the glass. Stir vigorously with a spoon. Watch closely whether the water changes its colour.
- Now add about 5 spoons of cooking oil and stir vigorously about one minute.
- Observe closely what happens! Describe precisely what you see.
- Observe the colour of the oil before the experiment and after stirring it together with the grated carrot (It is easier to compare the colour if you pour some oil into the other beaker.).

Observations

Why would it make sense to use oil when preparing a salad?

Do you know any babies that eat lots of carrot purée? Look at their skin. What do you notice, and what is the reason for that?
