

Year 4 home learning Tooth decay investigation

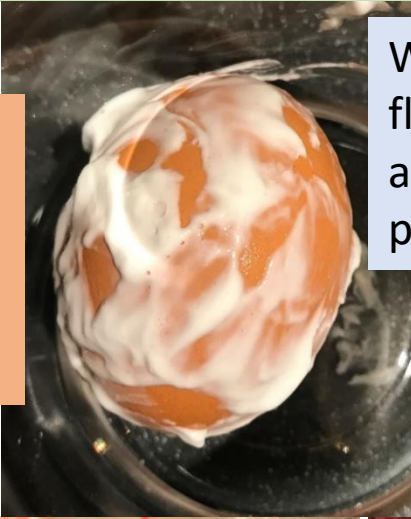
This week we have set up our tooth decay investigation. Miss Brenta set up seven eggs in different liquids, using our suggestions from last week. We have chosen Coca Cola, milk, tea, orange juice, vinegar and water.



Thursday 30th April 2020
L.L. To make predictions for an investigation.

- 1) I predict the ~~orange~~ eggshell in the orange juice will have a few cracks and will be damaged because it has lots of acid and sugar.
- 2) I predict the eggshell in the water will stay exactly the same because water is neutral.
- 3) I predict that the eggshell in the Coca Cola will get really damaged and will break open.
- 4) I predict that the eggshell in the vinegar will also be very damaged but not as bad as the Coca Cola because the Coca Cola has lots of sugar and acid whereas vinegar just has big amounts of acid.
- 5) I predict that the eggshell in the tea will change color because tea is brown and the eggshell is lighter.
- 6) I predict that the eggshell in the milk will only be a tiny bit damaged because it doesn't have much sugar and acid in it.

We made predictions about what we think will happen based on the sugar and acid content of each liquid.



We're also looking at the impact of fluoride toothpaste. Miss Brenta covered an egg in toothpaste for 24 hours before placing it in Coca Cola.

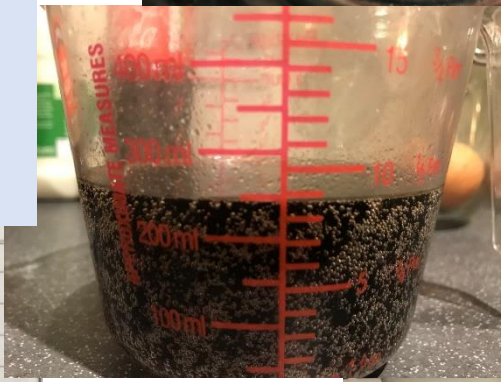
We have to make sure to use the same amount of each liquid to ensure our results are accurate. We also need to keep the eggs in the same place.

Science 1/3

Thursday 30th April 2020
L.L. To make a prediction for an investigation.

Activity 3 - Science

1. pH scale - pH is a scale used to specify how acidic or basic a water-based solution is. Acidic solutions have a



Some of us are following along at home with some different liquid choices! Zachary has placed an egg in water with some sweets to see what the sugar in the sweets does to the egg.

