

Today we are going to be working scientifically to carry out a science investigation. You will need 2/3 apples and some salt (bicarbonate soda optional) and 2/3 plastic containers/tin foil.

You could just do the planning and prediction stages of this experiment if you don't have these items available. (If you don't have salt- you might like to experiment with liquids or other substances!)

Mummifying apples!

You will be predicting how well the apples will be 'preserved' in different substances. You will then prepare the apples in the different substances and leave them for a week before uncovering and evaluating the results (next week).

Firstly, I want you to decide which substances you would like to try to use to 'preserve' your apple.

Your scientific question that you'll be investigating is,
'Which substance will preserve an apple the best'.

Apple 1: plain apple no mixture (control)

Apple 2: apple covered in 50% salt and 50% bicarbonate soda (desiccant)

Apple 3: apple and substance of your choice

(Desiccant is a substance that pulls out moisture)



Steps for 'Apple Mummification' (with adult assistance):

Step 1: Peel the apple.

Step 2: Carve face on the apple (optional).

Step 3: Apple 2- combine salt and baking soda in a 1 to 1 ratio.

Step 4: Place apple in a labelled container and add the correct mixture until you can cover the apple with a couple inches of the mixture.

Step 5: Wait 1 week and then pull the apple out.

Step 6: Evaluate results

(If you don't have salt- you might like to experiment with liquids or other substances!)

Prediction

<u>Apple mixture</u>	<u>Prediction- what you think the apple will look like after a week</u>
Plain apple	
Salt + bicarb	
*my choice	

I think _____ will preserve the apple the best because _____

_____.

Fair Test

To make sure this investigation is a fair test I will:

-
-
-

[Support- think about sizes of apples, amount of mixture used, container sizes, exposure to air, amount of time left]

Results (this week)

Apple/mixture	Plain Apple	Salt and Bicarb	*my choice
Picture/ drawing after a week →			
Description of apple/mixture			

Evaluation (this week)

Compare your prediction against your results- were you correct?

[Support- My prediction was correct, the * mixture preserved the apple the best. The apple in this mixture was the hardest and had less signs of decay and deterioration. The other two apples were a lot browner compared to the apple in the * mixture. I think this happened because..... Next time I could make sure the apples were a similar size to make sure it was a fair test].
