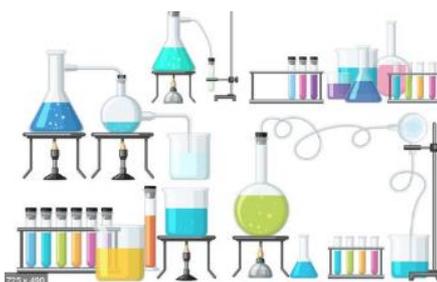


## Year 6 Science Transition



Hello! We are looking forward to meeting you in September and getting to share with you the amazing world of science. To get you started though, we have a science experiment for you to complete at home. One of the most exciting things in science is using experiments to help us understand things so I hope you enjoy doing this experiment at home!



### **What you will need (equipment list):**

- A few leaves of red cabbage (if some of your friends are also completing this maybe you could share the red cabbage as you will only need a few leaves each)
- A large bowl (plastic)
- Another bowl or a pan
- Hot tap water
- Potato masher
- Sieve
- 2 cups
- 2 spoons
- Piece of blank paper
- Newspaper/ magazine/ kitchen roll
- Paint brush or straw or piece of cutlery like a spoon
- Washing up liquid or toothpaste
- Lemon juice or vinegar

### **What you need to be careful of (risk assessment):**



You will be using hot water from the tap, make sure you do not touch it while it is hot or splash it on you while using the potato masher

### What you need to do (method):

1. Make sure you have the bowl, red cabbage and potato masher ready.
2. Use your hands to tear up a few red cabbage leaves into smaller pieces and put them in the bowl.
3. Run the hot tap to get hot water and add a small amount of hot water to the bowl so the water is just covering the red cabbage leaves.
4. Use the potato masher to gently crush the red cabbage. This should be done slowly and carefully to avoid any hot water splashing out. If you twist the potato masher as you press down on the red cabbage it will help release more colour.
5. Add a little bit more hot water from the tap to the water and cabbage mixture and use the potato masher to stir it.
6. Leave the mixture for about 30 minutes or until the water is a dark purple/blue colour.
7. Take the sieve and hold it over the empty bowl or pan. Carefully pour your water and cabbage mix through the sieve catching the coloured water in the bowl or pan. You can then throw away the cabbage leaves.
8. Spread out your newspaper/magazine/ kitchen roll onto a hard surface to protect the surface from the colour in the water
9. Dip your blank paper (you might want to do more than one piece) into the coloured water and leave it to dry on the newspaper/ magazine/ kitchen roll.
10. Once the paper is dry take the two cups. In one cup put a small squirt of washing up liquid or toothpaste. Add a small amount of water to the cup and stir with a spoon. In the second cup put some lemon juice or vinegar and add a small amount of water and stir with a clean spoon
11. Dip your paint brush or other utensil into the first cup and use it to draw a pattern on your paper. Clean your paint brush/ utensil, dip it in the second cup and use it to add to your pattern. See how complex you can make your pattern
12. Carefully pour away your liquids and wash up the equipment you have used and wipe down the side you have been working on



### What I saw happen (conclusion):

When I painted on the paper with the lemon juice/ vinegar the paper turned \_\_\_\_\_

I think this is because \_\_\_\_\_

When I painted on the paper with the washing up liquid/ toothpaste the paper turned \_\_\_\_\_

I think this is because \_\_\_\_\_

This means we can use the red cabbage as an indicator because it \_\_\_\_\_

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If you want to find out more about this topic you can at the following website:

<https://www.bbc.co.uk/bitesize/guides/z89jq6f/revision/1>

