

# HELLO UNWIN

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Unwin House Captain Assembly

# APPARATUS

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Tall glass



Vegetable oil



Food colouring



Alka-seltzer



# METHOD



Firstly, fill a glass with  $\frac{1}{4}$  full of water.

Secondly, fill the glass with  $\frac{1}{2}$  full of oil.

Thirdly, add some food colouring.

Fourthly, add two Alka-Seltzer tablets.

# PREDICTIONS



What do you think might happen when I add the oil to the water?

What do you think will happen when I add the Alka-Seltzer?

Can you explain your answer?



# RESULTS

When you pour in the oil it floats on the top and does not mix with the water.

When you add the Alka-Seltzer, bubbles float through the water and the oil, to the top of the glass.

<https://www.youtube.com/watch?v=lvcPiDvmFJM>

# PICTURES







# CONCLUSION

Oil and water do not mix. If you try to shake up the bottle, the oil breaks up into small little drops but the oil does not mix with the water.

When you pour the water into the bottle with the oil, the water sinks to the bottom and the oil floats to the top. Oil floats on the surface because water is heavier than oil, it has a higher density than the oil.

The Alka-Seltzer tablet reacts with the water to make carbon dioxide gas. These bubbles attach themselves to the coloured water and cause them to float to the surface. When the bubbles pop, the colour sinks back to the bottom of the bottle.

# THANK YOU FOR LISTENING UNWIN

Remember to check out the school science page for ideas you can try at home with an adult:

Thanks for watching



- All the house captain presentations
- All the Year 6 science carousel activities
- Duckling web cam link
- Photos of the decorated classroom doors when they have been completed

By Ella

Unwin