

Ted's Emergency

A Task Setting Powerpoint for Thinking Scientifically and Carrying out an Investigation.



LO:

To learn which is the best material for a special task.

Success Criteria

- I will know about properties of different materials.
- I will be able to carry out a fair test.
- I will draw a sensible conclusion from the test.

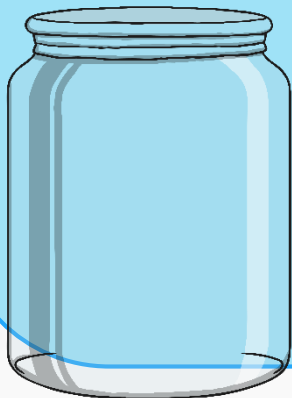
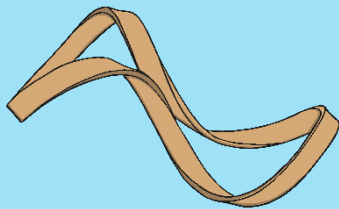
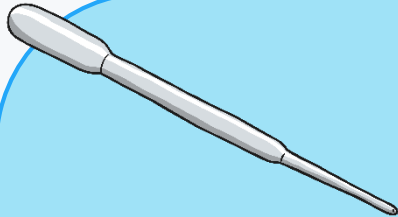
Ted's Problem

Poor Ted, can you help him?
He has gotten wet while out
playing in the garden. What
could he do to stop that
from happening again?

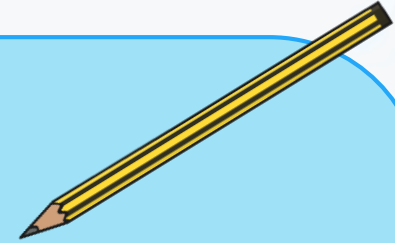


We are going to make
him an umbrella.

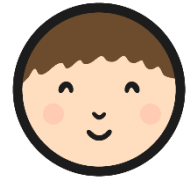
You will now need to collect the equipment for your test:



- A small bear
- A plastic pot
- An elastic band
- A pipette
- A pot with water in
- Different materials to test



Umbrella Investigation



★ Umbrella Investigation

We want to find out which would be the best material to use to make an umbrella for Ted.

Prediction – What do you think is going to happen? Which material do you think will be best?

I think...

Method:
We covered the pot with different materials. Then we squirted _____ drops of water and watched to see if the water came through each material and made Ted wet.

Material	What happened?	Can this be used for Ted's umbrella?

Conclusion: Which material would be the best to use for Ted's umbrella?

Why?

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★ Umbrella Investigation

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I think...

Method:
We covered the pot with _____ Then we squirted _____ drops of water and watched to see if the water came through each material and made Ted wet.

Material	What happened?	Can this be used for Ted's umbrella?

Conclusion: Was your prediction right?

Which material would be the best to use for Ted's umbrella?

Why?

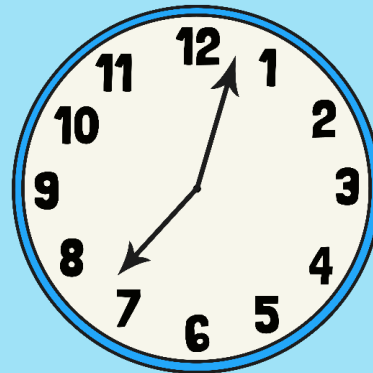
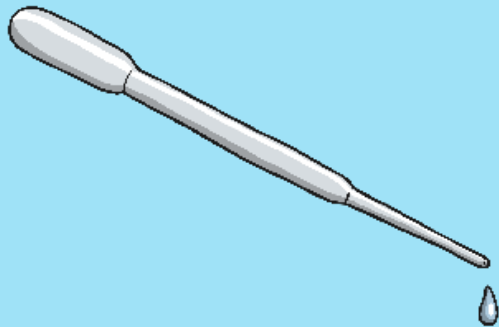
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Fair Test

How are you going to make this test fair?

You need to do exactly the same thing every time you do the test.

You will need to think about how much water you use each time, how far away from the material you drop the water and how long the water touches the material before you observe the result.



Your Experiment

- Put your bear in a plastic pot.
- Choose a material to test. Place it on top of the pot and secure it with an elastic band
- Drop water onto the material using the pipette.
- Watch closely.
- Write down the results of the test.
- Do the test again using a different material.



Plenary

What happened during your test?

Did you correctly guess what would happen?

What have you found out from doing the experiment?

If you were going to do the experiment again what would you do differently?

Did you keep the test fair?

What can we do to help Ted?



Results



Which material would be the most suitable to make Ted's umbrella from?

Why?



Why wouldn't it be a good idea to make an umbrella from metal or glass?

