



Science

Everyday Materials

Umbrella Investigation



Aim

- I can watch closely.
- I can test different materials.
- I can use what I have learnt to make a decision.

Success Criteria

- I can look carefully at what happens to Ted.
- I can record what I see.
- I can test different materials by dropping water onto them, in a fair way.
- I can record what happens.
- I can use what I know to choose a suitable material for an umbrella for Ted.
- I can explain why the chosen material would be a good choice.

Ted's Problem



Poor Ted, can you help him? He got 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.

Materials



We are going to test these materials today and work out which would be the best one to make Ted's umbrella from.



How could we test these materials?

What would we need to look out for?

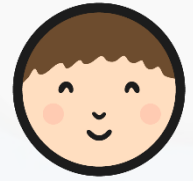
Your Experiment

- 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.

When you are working in your groups you can take it in turns to choose the material, put on the water and time the results. Make sure everyone takes part.



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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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?

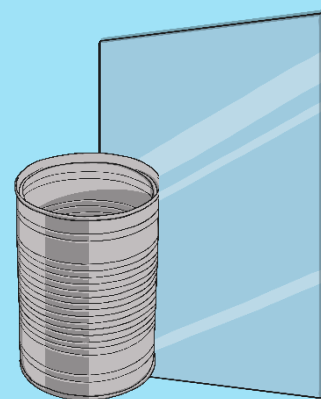
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Results



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?

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