

Year 1's  
Waterproof Witch  
Experiment



During our Wizard of Oz topic we did an experiment to test the waterproof properties of different materials.  
We asked...

What material could the Wicked Witch have used to protect herself from Dorothy's bucket of water?

15.02.22

L.O.. To Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick/rock, and paper/cardboard for particular uses

Working scientifically: Perform simple tests

Gather and record data to help in answering questions

Question: Which material  
could the wick use to  
protect her from water?

The first thing we did was to make predictions on the materials we thought would be waterproof and which ones wouldn't be.

Waterproof : ✓ = waterproof

X = leaky

Material	Prediction
metal	✓
plastic	✓
paper	X
fabric	✓
wood	X



Once we had predicted we tested the different materials. Each group tested a different material by holding it above the watch and pouring water on to it.



Then we shared our findings and filled out the result column. We could see if our predictions were correct or not.

Material	Prediction	Result
metal	✓	✓
plastic	✓	✓
paper	X	X
fabric	✓	X
wood	X	✓



Finally we could answer our question.

Material	Prediction	Result
metal	✓	✓
plastic	✓	✓
paper	X	X
fabric	✓	X
wood	X	X X ✓

Answer : She could use metal because it is waterproof