# 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?


## 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.



## Results

Which material would be the most suitable to makes 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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# Everyday Materials: Umbrella Investigation 

## Aim:

To observe closely by watching what happens to teddy.

I can watch closely.

To perform simple tests to find out which material would be suitable to make an umbrella from.
I can test different materials.

To use their observations and ideas to suggest answers to questions by deciding which materials would be suitable to make an umbrella from.
I can use what I have learnt to make a decision.

## Success Criteria:

I can look carefully at what happens to Ted.

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I can test different materials by dropping water onto them, in a fair way.
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I can explain why the chosen material would be a good choice.

## Key/New Words:

Investigation, prediction, predict, watch, test, record, sensible, results, decision.

## Resources:

Lesson Pack
Pencils

## Preparation:

Differentiated Umbrella Investigation Activity Sheet - 1 per child
Investigation resources per group: a small bear, a plastic pot, an elastic band, a pipette, a pot with water in and 4 different (pre-cut) materials to test.

Prior Learning: Children will have explored the properties of different materials in lessons 3 and 4.

## Learning Sequence

Ted's Problem: Use the Lesson Presentation to introduce the children to Ted and his problem. Ask
children to discuss how they could help Ted. Explain that we would like to make him an umbrella but

we're not sure which material would be best to use. | Materials: Show children the four different materials they will be testing. (The materials need to be |
| :--- |
| able to cover a small plastic pot and be able to be attached to the pot using an elastic band. One of the |
| materials should ideally be a type of plastic similar to an umbrella.) Children talk to a partner to discuss |
| and answer the questions on the Lesson Presentation. Are children able to suggest sensible ways in |
| which these materials could be tested? |

## Taskit

Investigateit: Children investigate other similar questions such as: What is the best material for a bookshelf? What is the best material for carrying water?
Debateit: Children hold a debate to argue which material should be used for a particular purpose.

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