

Everyday Materials: Lesson 5

Conducting an Experiment to Make a Comfy Kitten Bed

Science KS1 Year 1



Everyday Materials: Conducting an Experiment to Make a Comfy Kitten Bed

Science

Key Stage 1 Year 1

Learning Aims:

- carrying out a fair experiment
- measuring and recording results
- analysing our results and assessing whether our hypothesis and predictions were correct

Curriculum Links:

Working Scientifically

During years 1 and 2, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content:

- asking simple questions and recognising that they can be answered in different ways
- observing closely, using simple equipment
- performing simple tests
- identifying and classifying
- using their observations and ideas to suggest answers to questions
- gathering and recording data to help in answering questions

Keywords

Object. Material. Properties. Absorbent. Investigation. Predict. Measure. Hypothesis.

These can also be found at the end of this PDF in printable format, and are also on the previous lessons.



This is a practical lesson, introducing the children to conducting an experiment. The accompanying PowerPoint aims to enhance this lesson. However, as not all children will be able to read the words, it should be regarded as a visual support throughout the lesson, and help provide a fun, engaging narrative to take them through the steps of conducting a fair test.

If you brought along a toy cat in the last lesson, preparing the children to conduct an experiment, you could use it again in this lesson!

You will need:

Materials for the children to investigate their properties as suitable lining for a cat basket. We recommend you use the same materials as referred to in the PowerPoint:

- Newspaper
- Cotton wool
- Paper towels
- Towel
- Worksheet conclusion forms, which are on pages 5, 6 and 7 of this PDF.

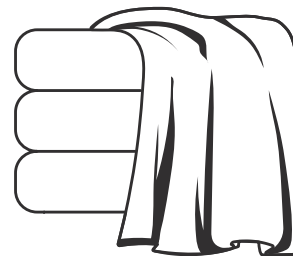
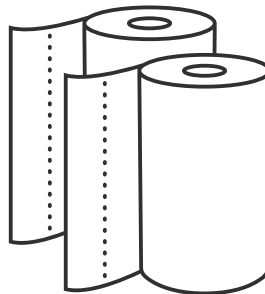
PowerPoint Presentation

The accompanying PowerPoint has the following learning points:

- Slides 1 and 2 introduce the lesson.
- Slide 3 prompts the children to remember the aim of the experiment, the question we are trying to answer: finding out what will be the best material for lining a kitten's bed.
- Slide 4 reminds the children which properties are to be tested: soft, absorbent, strong.
- Slide 5 recaps why the material needs to be soft.
- Slide 6 recaps why the material needs to be absorbent.
- Slide 7 recaps why the material needs to be strong.
- Slide 8 recaps which materials are to be tested.
- Slide 9 looks at the prediction forms from the previous lesson.

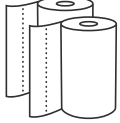
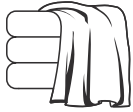


- Slide 10 sets up that the children are now putting their predictions to a fair test.
- Slides 11 and 12 recap how to ensure that a test is fair.
- Slide 13 recaps how children will test the materials for the property of softness.
- Slide 14 asks which material was the softest and least soft. This can be displayed while the children fill out their form.
- Slide 15 recaps how children will test the materials for the property of absorbency.
- Slide 16 asks which material was the most and least absorbent. This can be displayed while the children fill out their form.
- Slide 17 recaps how children will test the materials for the property of strength.
- Slide 18 asks which material was the softest and weakest. This can be displayed while the children fill out their form.
- Slide 19 asks which was the best/were the best materials. Was the children's hypothesis correct?
- Slide 20 congratulates the children for a purr-fect bed for a kitten.



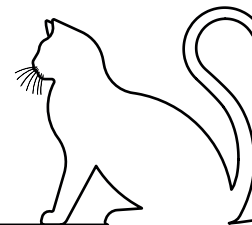
Results: Absorbency

Put a tick in the column for each material to show how absorbent it is.

Material	1 (least absorbent)	2	3	4	5 (most absorbent)
Newspaper 					
Cotton Wool 					
Paper towel 					
Towel 					
Material the children decide					

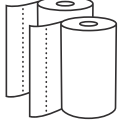
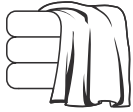
The most absorbent material is Score

The least absorbent material is Score



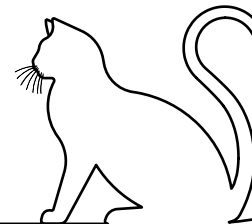
Results: Softness

Put a tick in the column for each material to show how soft it is.

Material	1 (least soft)	2	3	4	5 (softest)
Newspaper 					
Cotton Wool 					
Paper towel 					
Towel 					
Material the children decide					

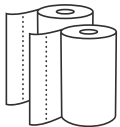
The softest material is Score

The least soft material is Score



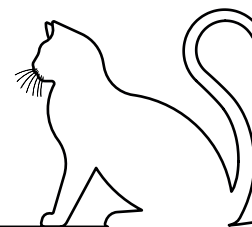
Results: Strength

Put a tick in the column for each material to show how strong it is.

Material	1 (weakest)	2	3	4	5 (strongest)
Newspaper 					
Cotton Wool 					
Paper towel 					
Towel 					
Material the children decide					

The strongest material is Score

The least strong material is Score



Everyday Materials: Keywords Flashcards



Object

Material

Properties

Absorbent

Investigation

Predict

Measure

Hypothesis



Object



Material



Properties



Absorbent



Investigation



Predict



Measure



Hypothesis

