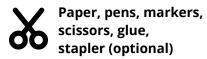
Science for families

Chemical sciences

Sorting objects

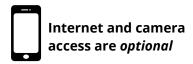
F - Yr 2











Preparation

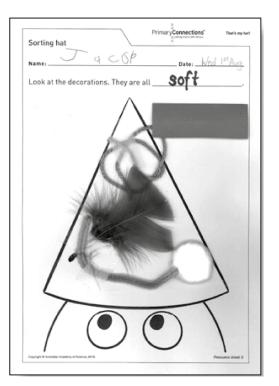
- Print/ copy the task sheet <u>OR</u>
- Create a copy on A4 paper or in a scrapbook

Purpose

- To describe the properties of different materials that objects are made from, using the senses of touch and sight.
- To select and describe decorations for a hat, based on the properties of materials.

Description

- 1. Support the student to collect objects from around the home and yard that are made from different materials, and might be used to decorate a paper hat. e.g. paper towel, feathers, bubble wrap, straws, bottle tops, crêpe paper, fabric pieces, yarn, cotton wool, pegs, wrapping paper, cardboard shapes, string, popsticks, foil.
- 2. Students describe what the objects they have collected look like, and feel like. They identify objects that are similar, and why they think they are similar.
- 3. Students sort objects they find, using the 'Sorting hat' task sheet, based on the objects' 'properties' the way they look or feel (e.g. bendy, smooth, fluffy etc).
- 4. Students explain why they have grouped the objects the way they have. **OPTIONAL:** Take a photo or draw each combination of objects, then remove the objects from the hat and repeat for a different property.
- 5. Students decorate the hat with one of the groups of objects, and explain why e.g. "I have decorated my hat with plastic because it will/won't get too wet in the rain". Encourage students to focus on the properties of the materials to inform their decisions.



EXAMPLE:

A 'Sorting hat' task sheet completed at home.



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Before the task

- Read a story about a hat that is decorated e.g. <u>Jennie's hat by Ezra Jack Keats</u>, (https://www.youtube.com/watch?v=F8T8RBmZ2ow) or Mrs
 J2pAjPrAA
- Find out what students already know about how objects are made of materials, and that materials have observable properties.
- You might like to ask these questions to guide a discussion:
 - (select an object nearby) What do you think this is made of?
 - Why do you think it is made of that material?
 - How would you describe this object?
 - What do you mean by ____? (asking about their description of the object)
 - Can you think of another object made of the same material?
 - What is the difference between the materials of these two objects? (parent selects two objects from the home). Why do you think they are so different/similar?

After the task

- You may like to re-read the story books (optional).
- Using the completed task sheets, discuss the objects used and why the student chose those objects.
- Discuss why objects might be made out of particular materials.
- Discuss what might happen if an object was made of a different material. Tip: have fun with it! e.g. 'What if all walls were made of glass?', 'What if our roof was made of paper?' etc
- You may wish to share a photo or drawing of the sorting hat and decorated hat with others (classmates, teacher, family members).

Explore some more

- Sort objects into 'natural' and 'processed' materials.
- Identify objects that are made of a combination of materials e.g. scissors are made of metal and plastic.
- Create 'material labels' and attach them to objects made of that material (wood, metal, plastic, fabric, wool, glass etc)
- Engage with these resources about materials and tools https://education.abc.net.au/home#!/topic/1775629/materials-and-tools
- Explore materials when making paper planes https://education.abc.net.au/home#!/media/2238518/exploring-materials-when-paper-plane-making
- Make a hat: Four ways to make a newspaper hat (https://www.wikihow.com/Make-a-Newspaper-Hat), Two ways to make a party hat (https://www.wikihow.com/Make-a-Party-Hat), Three ways to make a paper hat (https://www.wikihow.com/Make-a-Paper-Hat)

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Sorting hat

Name:	Date:
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Look at the decorations. They are all:

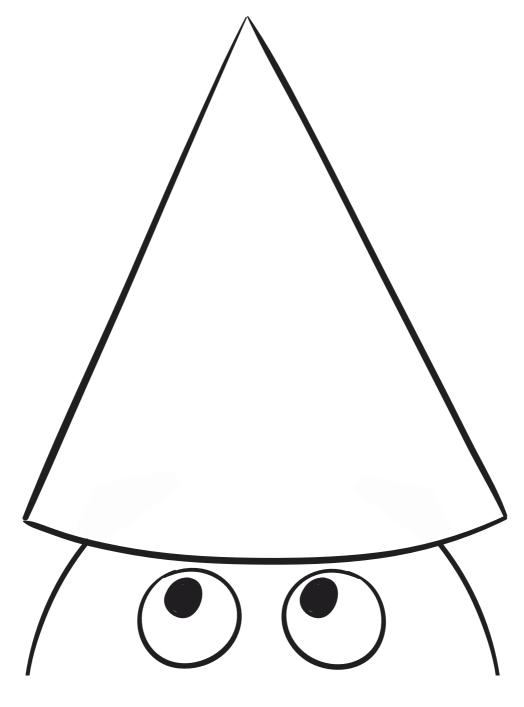


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My hat decoration

Name: Date: It is:

Image © Australian Academy of Science