Everyday materials

Why do we use different materials for different things?

Lesson 3: What are objects made from?





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Scientific enquiry types and skills



Scientific enquiry types

- Testing
- Researching
- Observing
- Pattern seeking
- **Identifying & classifying** ✓
- Problem solving

Working scientifically skills

- Asking questions
- Making predictions
- Setting up tests
- **Observing & measuring** ✓
- Recording data
- Interpreting & communicating results
- Evaluating

Why do we use different materials for different things?



Lesson 1: What are materials?

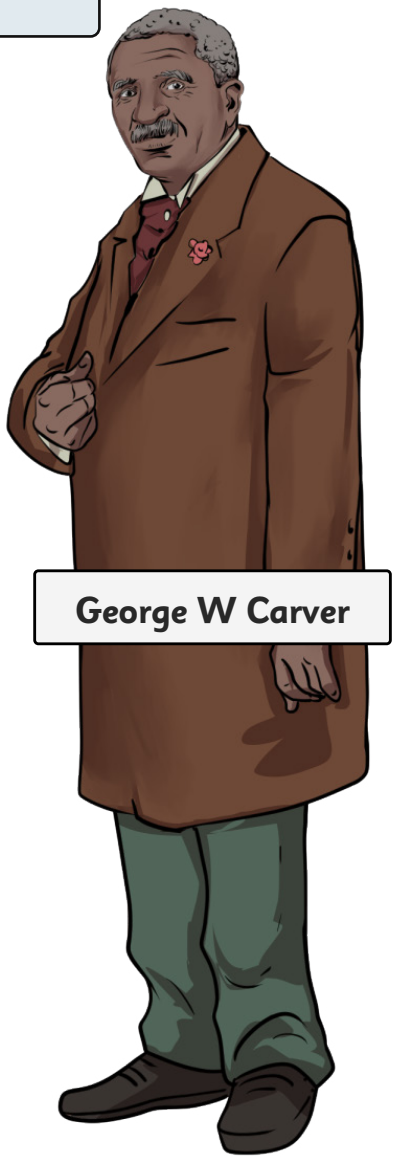
Lesson 2: How are materials different?

Lesson 3: What are objects made from?

Lesson 4: How can we sort materials?

Lesson 5: Are shiny objects always made from metal?

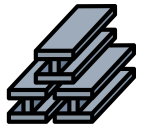
Lesson 6: Which material would make the best umbrella?



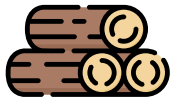
Key vocabulary for this lesson



plastic – a human-made material that is shaped to make things



metal – a hard, shiny material



wood – a natural material that comes from trees



glass – a see-through material that can break easily



rubber – a stretchy material that can bounce



object – something you can see and touch



material – something an object is made from

Identifying and classifying



Hello again! I'm **Harriet** and I'm a **builder**. In my job, I work with lots of **different materials** to build lots of different objects. I can build a **wall** from **bricks** or a **roof** from **metal**.

It is important that I can **name** (or **identify**) each material and understand its **properties**, so that I pick the right material to make each object.

Let's recap

Can you remember the names of these **materials?**
Discuss this question with your **learning partner.**











Be ready to share your feedback with the class before the answers are revealed.

Let's recap

answers

Can you remember the names of these **materials?**



wood



rubber



glass

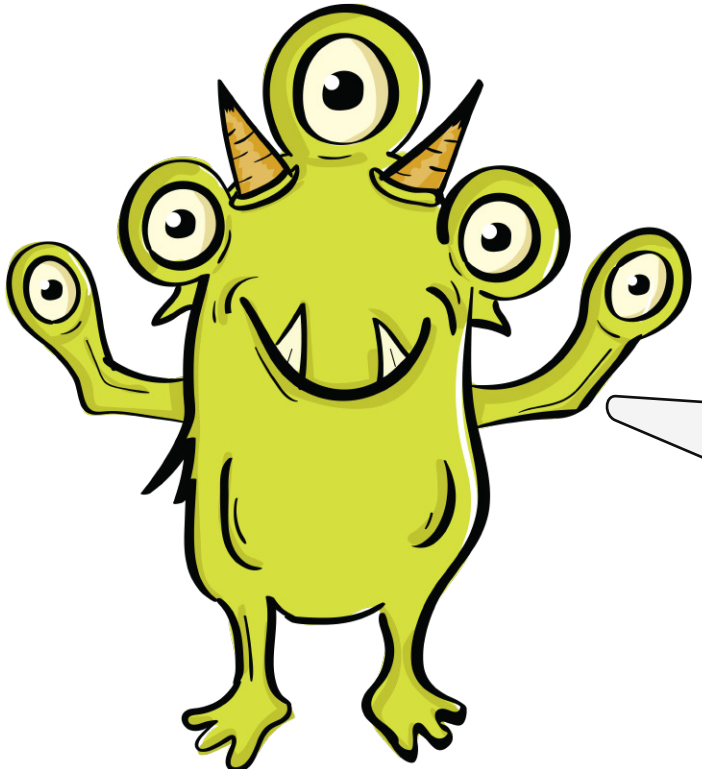


plastic



metal

Object and material

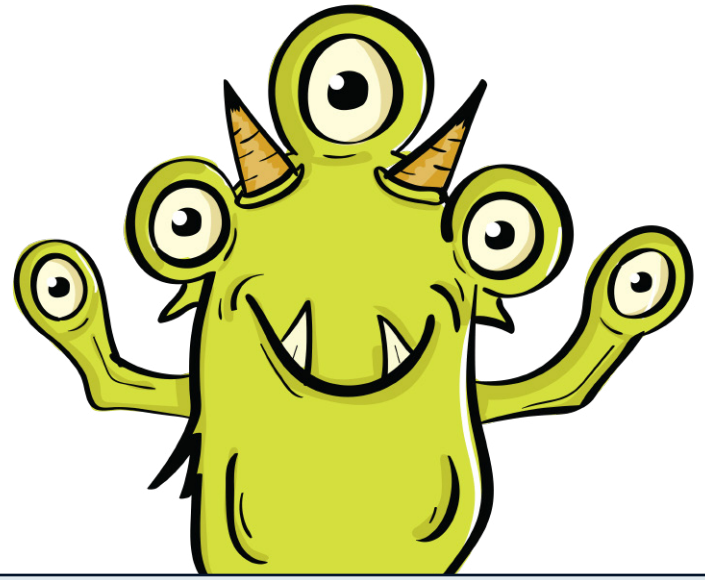


Hi! It's me again, **Blot** from the **Planet Glog**!
I really enjoyed learning how to **describe** all the **different materials**  last lesson.

Now, can you help me understand the difference between the **name** of an **object**  and the **material** it is made from? I am so confused and need some practice!

Object and material





What is this **object**?
Which **material** is it made from?

Discuss these questions with your learning partner.

Use these sentence starters to help you:
"This object is ……."
"The material it is made from is …"

Object and material

answers

Identifying & classifying



This object is a **table**. The material it is made from is **wood**. It is a **wooden table**.

Why is **wood** a good material to make a **table** out of?



Object and material

answers

Identifying & classifying

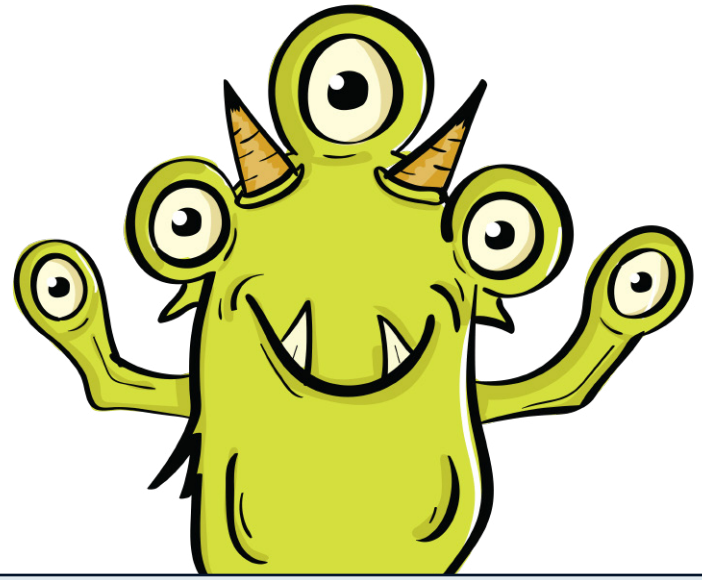
Wood is **hard** and **strong**, so it is a **good material** for a table.





Object and material





What is this **object**?
Which **material** is it made from?

Discuss these questions with your learning partner.

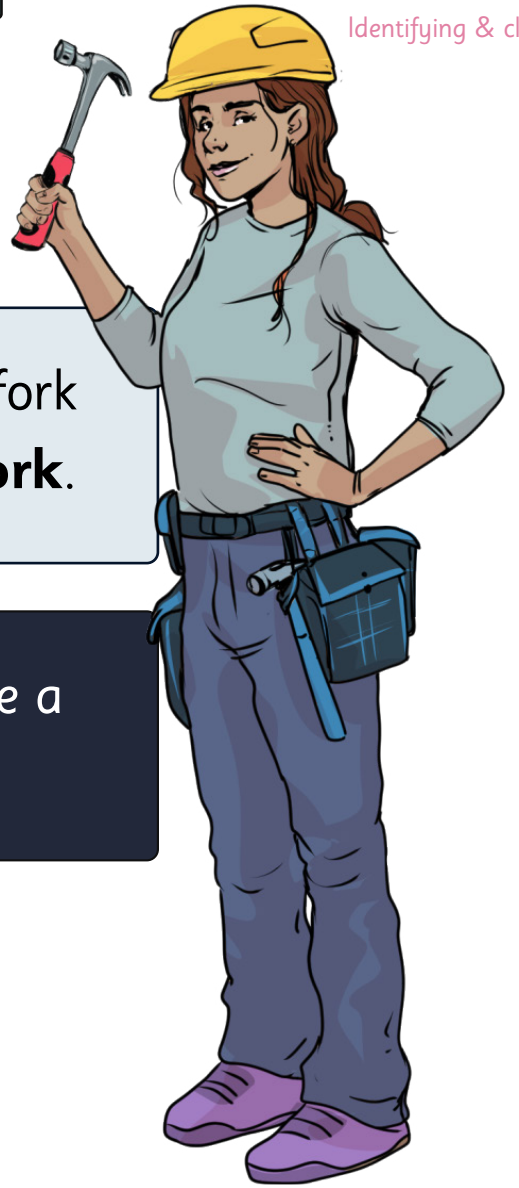
Use these sentence starters to help you:
"This object is ……."
"The material it is made from is …"

Object and material

answers

Identifying & classifying





This object is a **fork**. The material the fork is made from is **metal**. It is a **metal fork**.

Why is **metal** a good material to make a **fork** out of?

Object and material

answers

Identifying & classifying

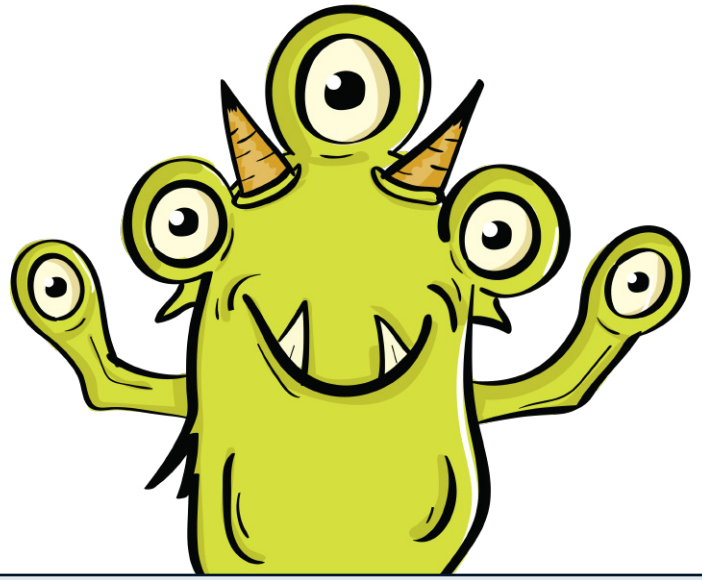
Metal is **hard** and **smooth**, so it is a **good material** for a fork.
Metal forks can get **hot** if you are eating hot food.





Object and material





What is this **object**?
Which **material** is it made from?

Discuss these questions with your learning partner.

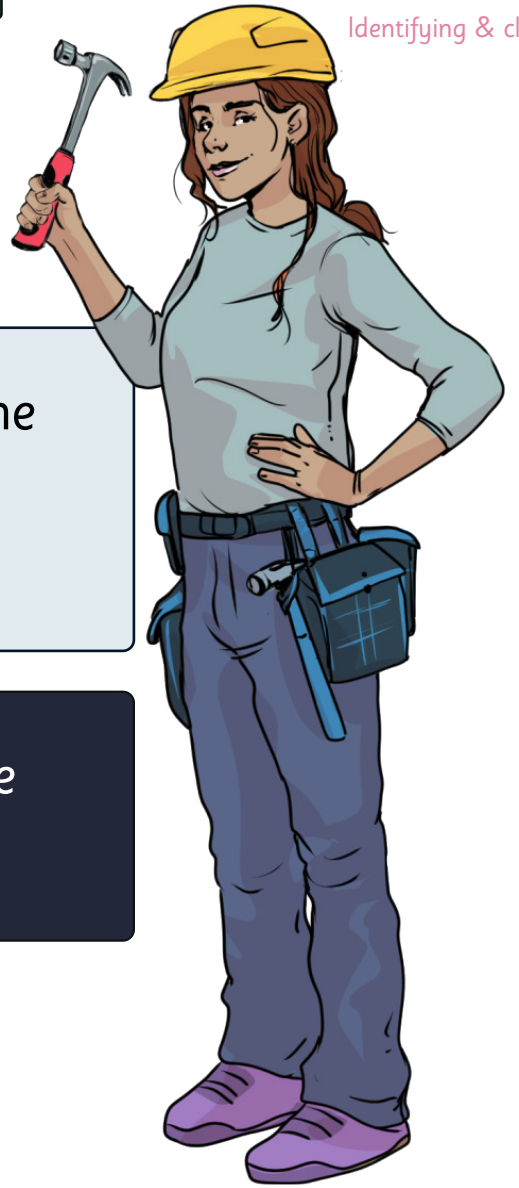
Use these sentence starters to help you:
"This object is ....."
"The material it is made from is ..."

Object and material

answers

Identifying & classifying





This object is a **balloon**. The material the balloon is made from is **rubber**. It is a **rubber balloon**.

Why is **rubber** a good material to make a **balloon** out of?

Object and material

answers

Identifying & classifying

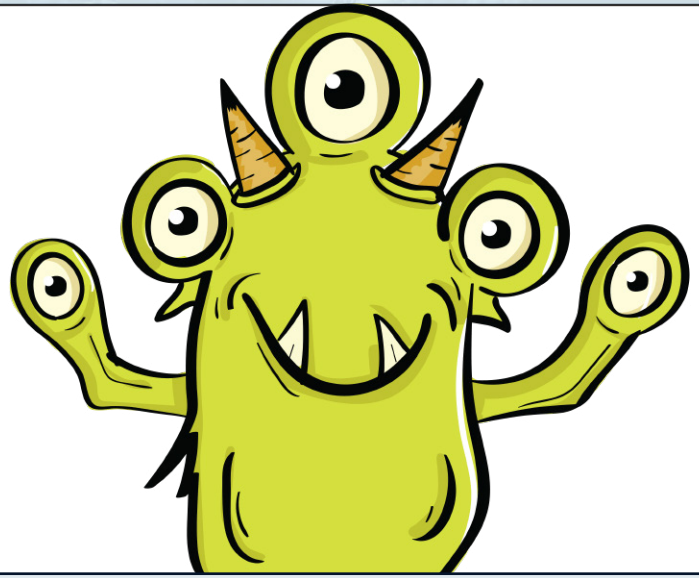
Rubber is **bendy, stretchy** and **strong**, so it is a **good material** to make a **balloon** out of.





More materials





What is this **object**?
Which **two** materials is it made from?

Discuss these questions with your learning partner.

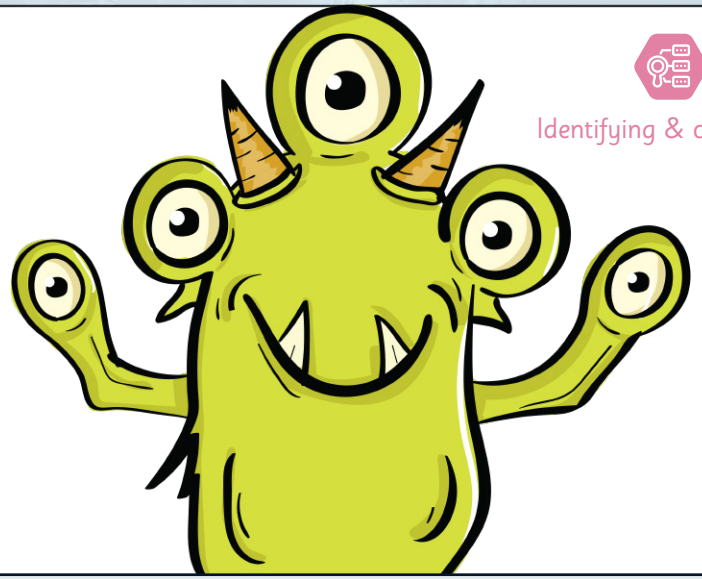
Use these sentence starters to help you:
"This object is ……."
"The materials it is made from are …"

More materials

answers

Identifying & classifying





This is a **window**. The materials that the window is made from are **glass** and **plastic**.

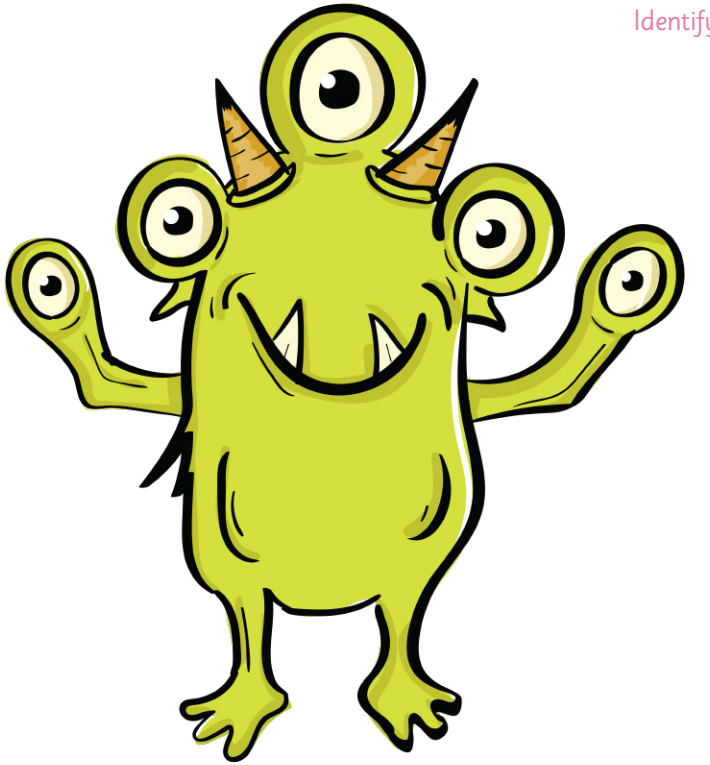
Why is **glass** a good material to make a window out of? Why is **plastic** a good material to use for a window frame?

More materials

answers

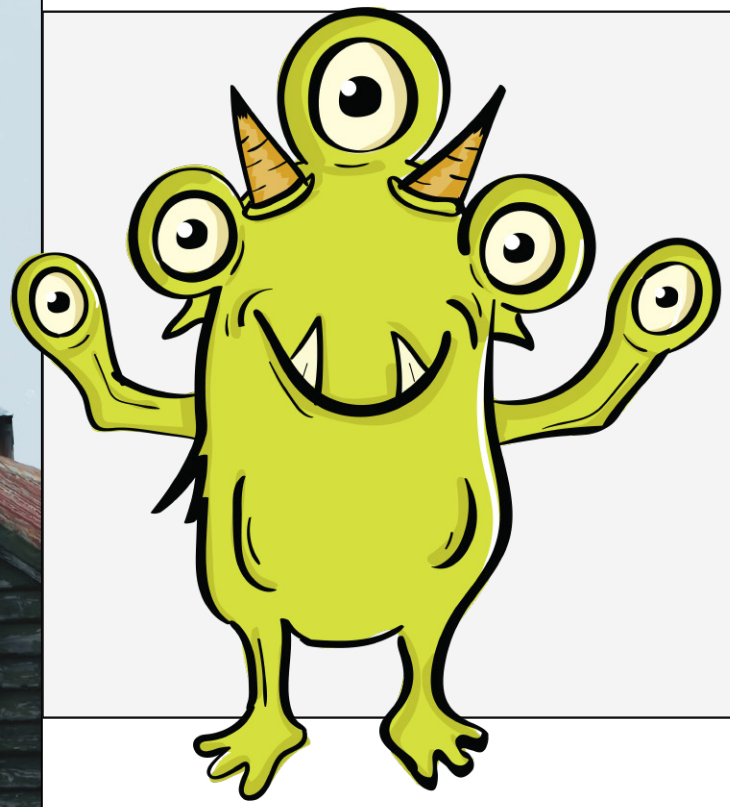
Identifying & classifying





Glass is **see-through** so lets light into your house. **Plastic** is **strong** and **waterproof**, so it is a good material to make a window frame.

Activity



Blot needs our help!

He is struggling to remember all the **objects** and the materials that they are made from.

Play '**material detectives**' in small groups. Take it in turns to choose an object from the bag, look at it and feel the object. Present it to your group and pass it around for everyone to look at.

Draw or **write** the name of each **object** and the **material** it is made from on your **activity worksheet**.

Use your **hands** to feel the object. 

Use your **eyes** to look closely at the object. 

Activity

Choose an object, look at it and feel it. Draw or write the **name of each object** below and the **material it is made from**. Use the word bank to help you.

Object	What material is it made from?

Word bank

plastic	metal	glass	rubber	wood

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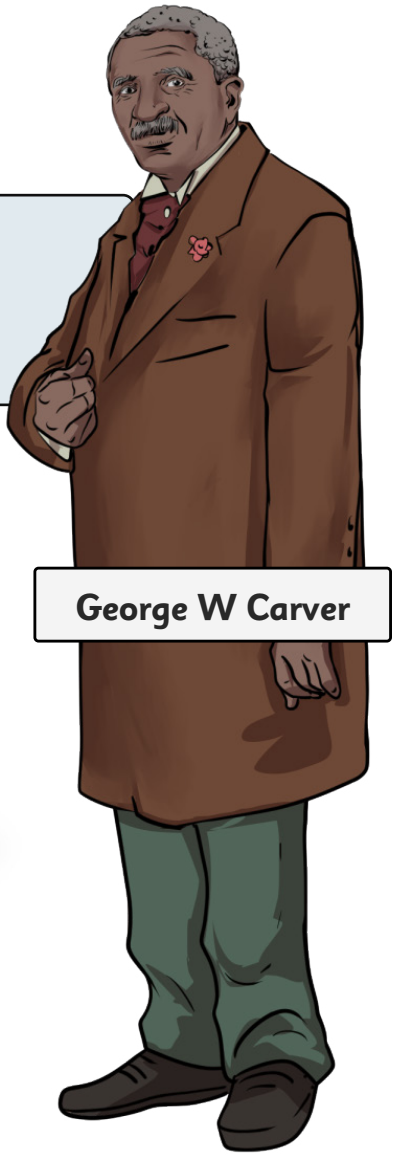
Challenge



Discuss this question with your learning partner.

How could you **group** these objects?





Be ready to **share your feedback** with the class before the **answer is revealed.**

Challenge

answers



Stephanie Kwolek



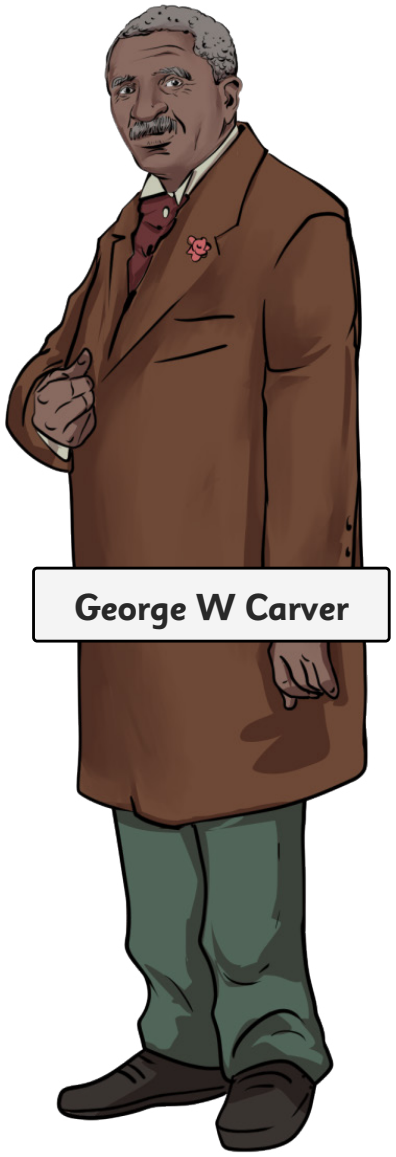








You could group them by their object name or their material name.



George W Carver