

Science

Building things

Lesson 2

Notes

In this lesson, we will be discussing different materials and their properties. We will be analysing different objects and identifying the material's properties. We will be building and creating mini walls and using them in our experiment in the next lesson, 'Is the Wall I've Built Waterproof?'. In this lesson you can choose to build all or 1 wall. You will need either playdough, hay or straw, twigs or lolly sticks, sugar cubes, plastic bricks, some glue or some sticky tape.

Introductory Quiz

Which materials are waterproof?

1) Which of these is a material? Choose 1. *

☐ Pillow

☐ Cotton

3) Everything is made up of materials. True or false? *

☐ True

☐ False

2) Which material is waterproof? *

☐ Plastic

☐ Paper

We are learning all about materials.



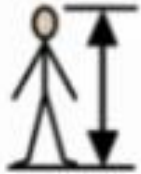
- The key question for this lesson.

Which material could I use to build a wall?

Lesson agenda



1. Listen to a story



2. Height and length



3. Materials and their properties



4. Groups of materials



5. Experiment

Things we need in this lesson:

Playdough



Hay or
straw



Twigs or
lolly sticks



Sugar
cubes



Plastic
bricks



Glue or
tape



Star words



length



height



design



model



materials



Let's listen to a story...





Let's recap now.

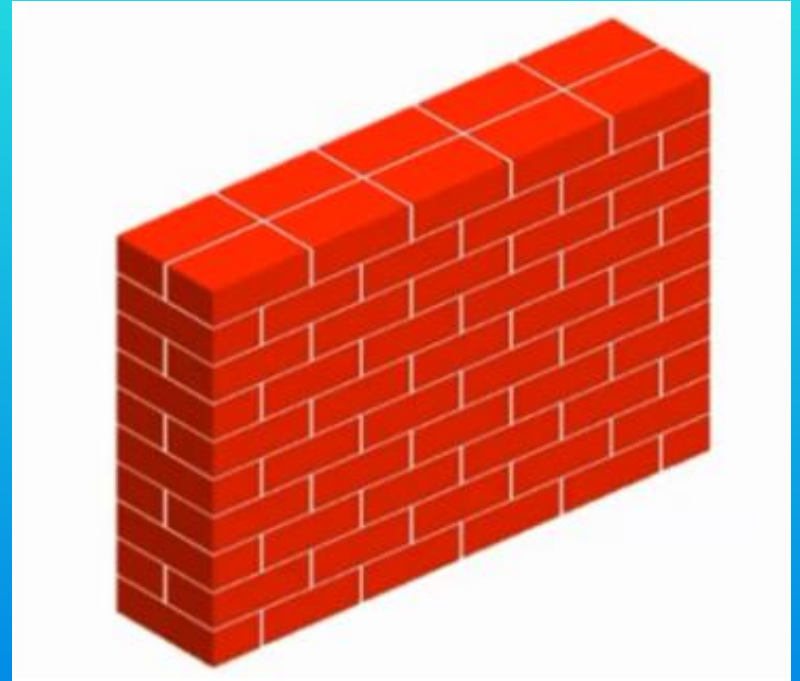
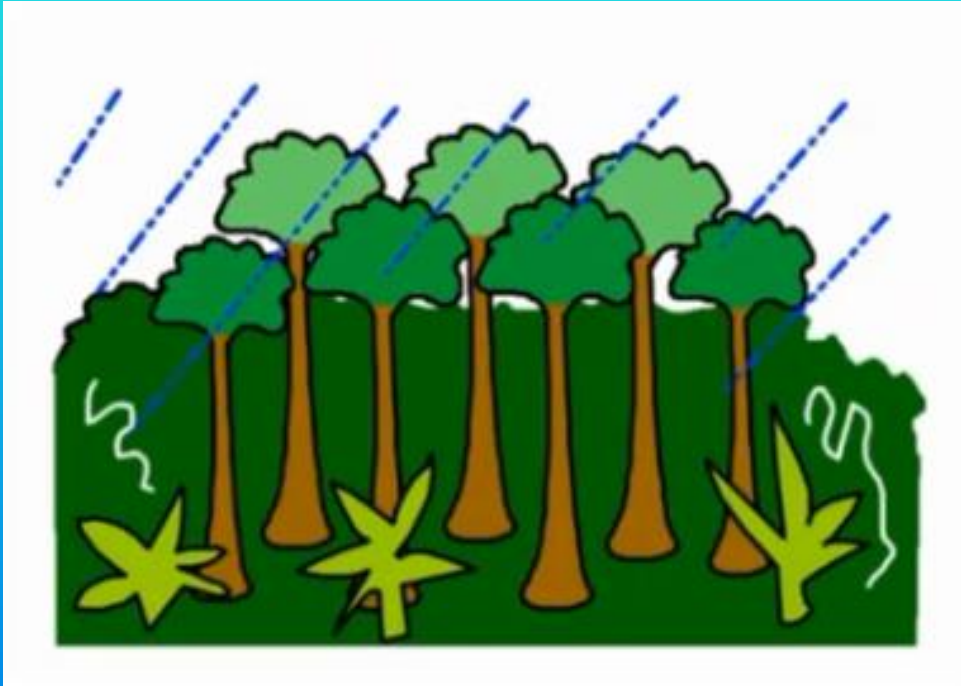


Everything is made up of materials. Each material



can be used to make lots of different things.

Create a classroom wall



**Are we going to build a
wall that is really tall?**

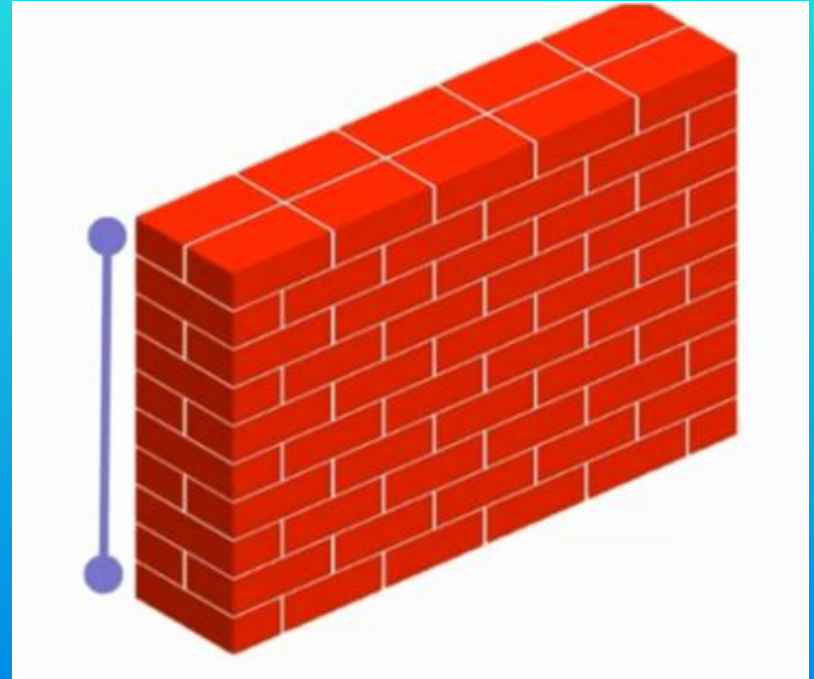
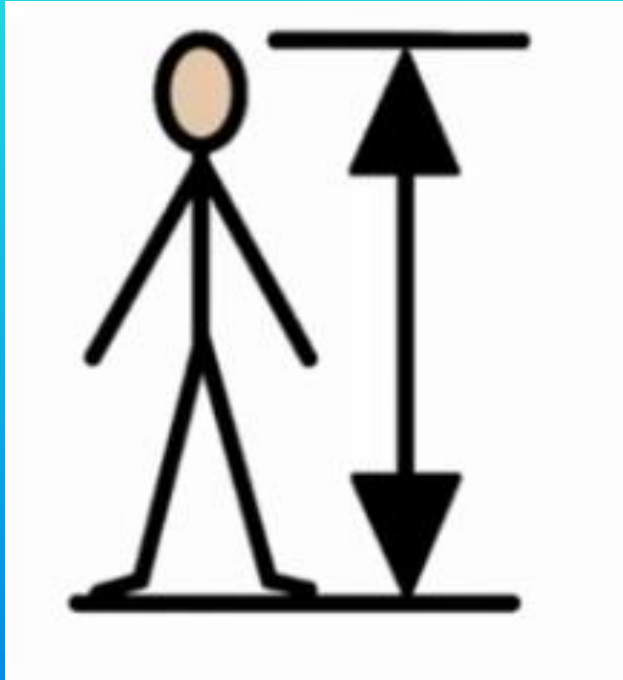


Height

and

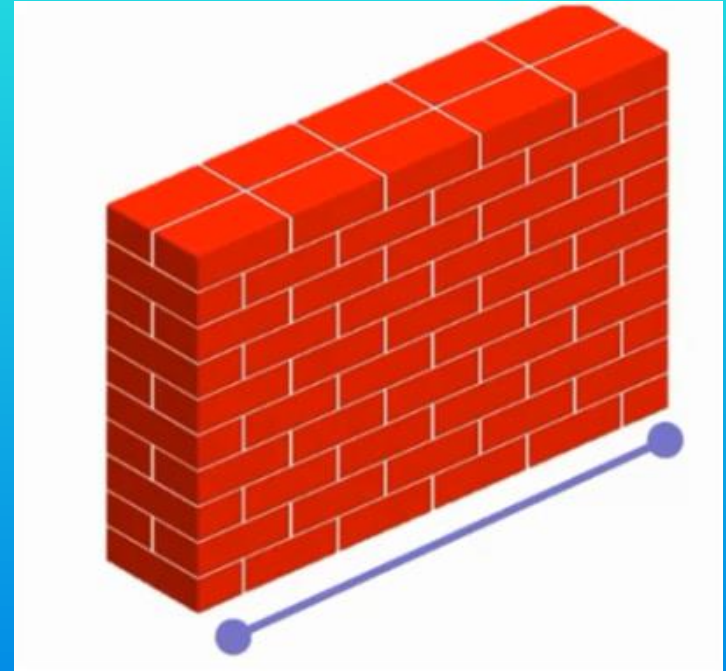
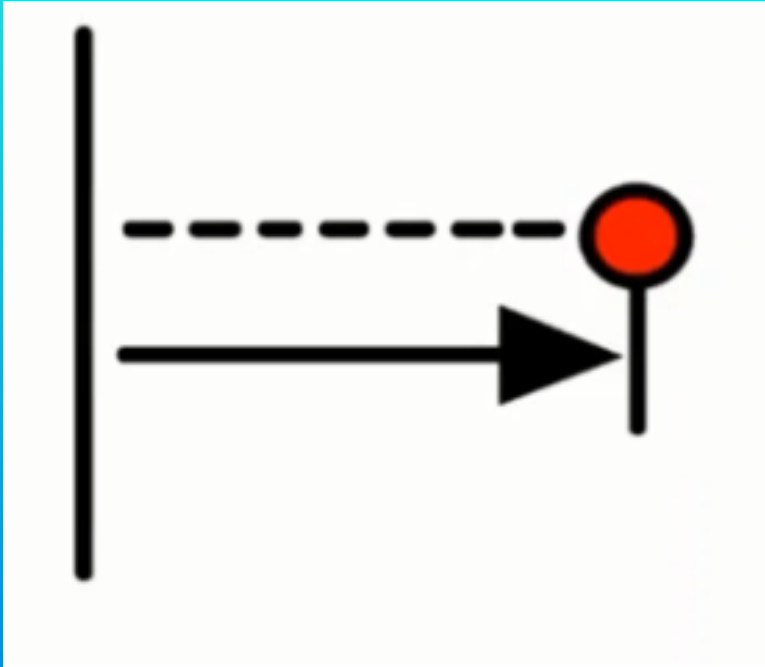
length

Height



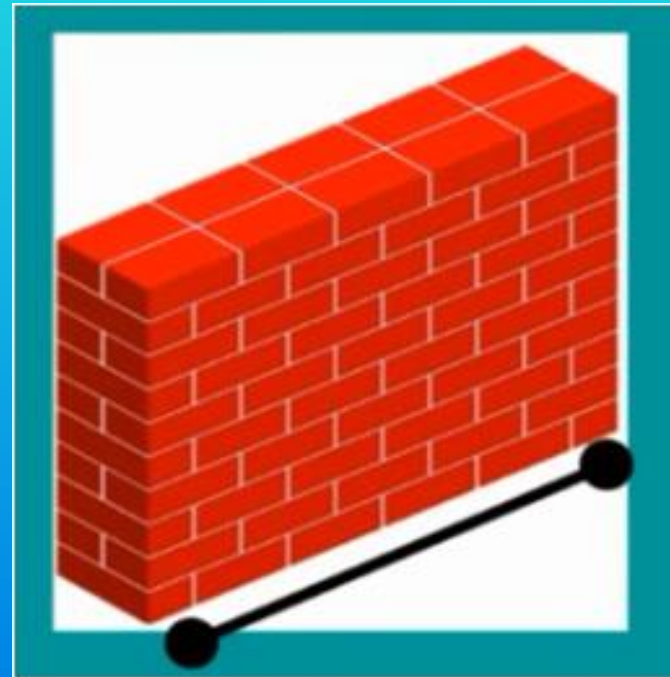
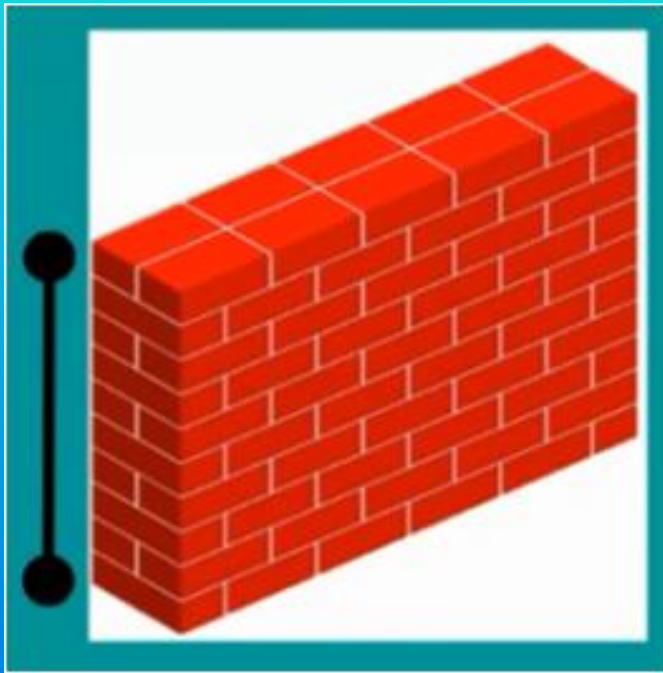
Height - how tall something is.

Length

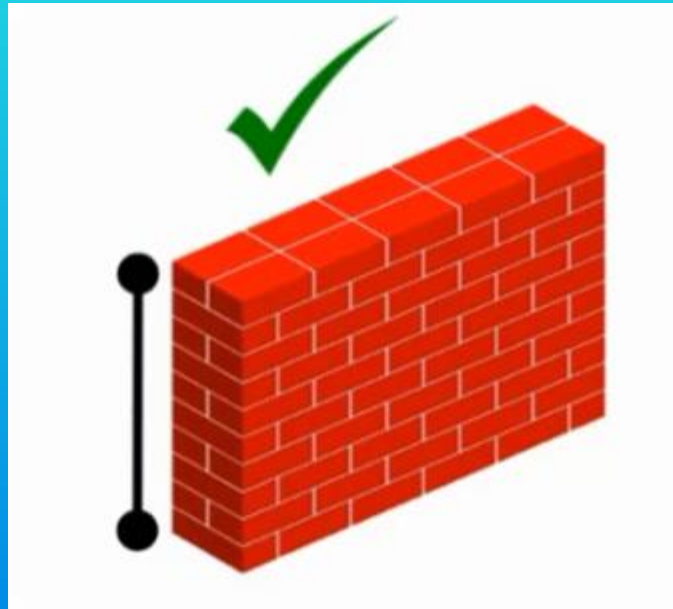


Length - how long something is.

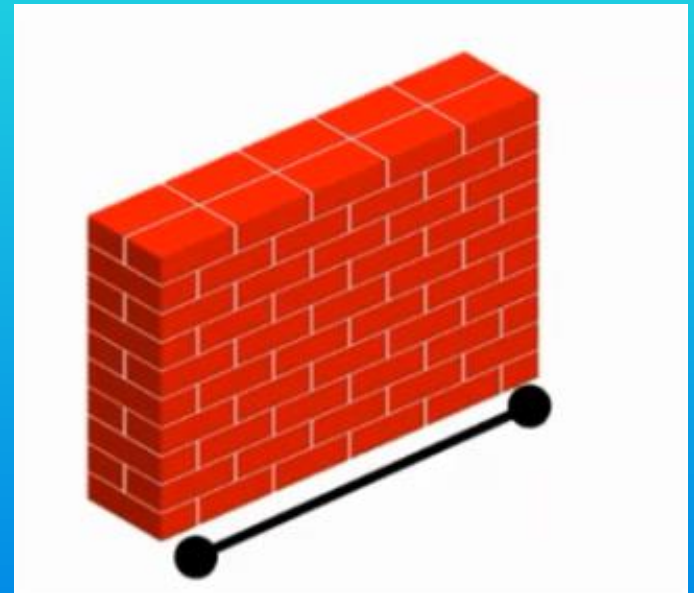
Which picture shows the height?



Height



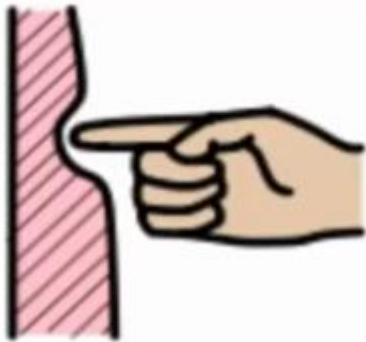
Length



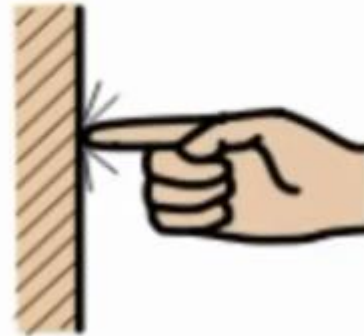
Materials and their properties

Properties

soft

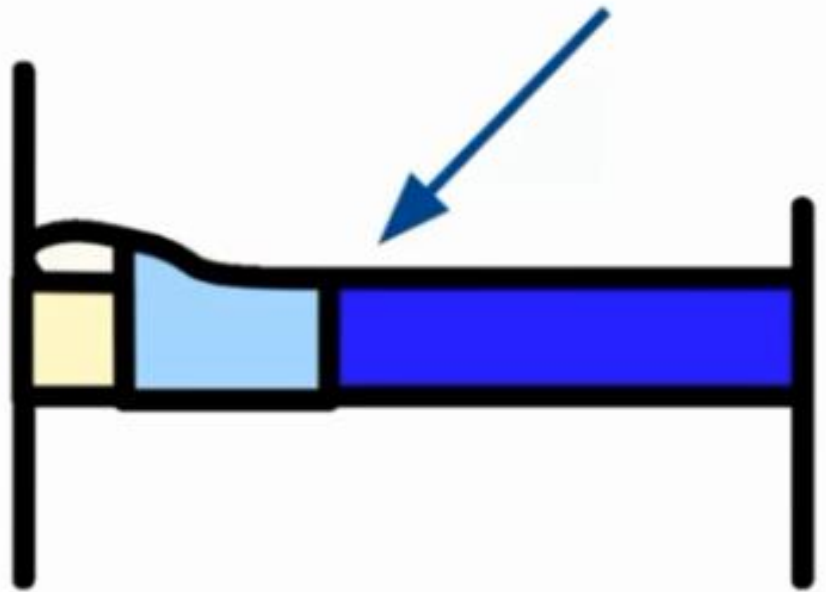
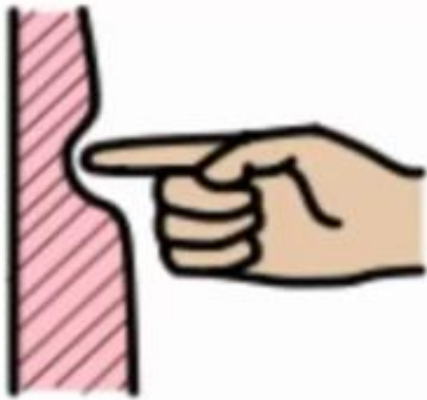


hard



Properties

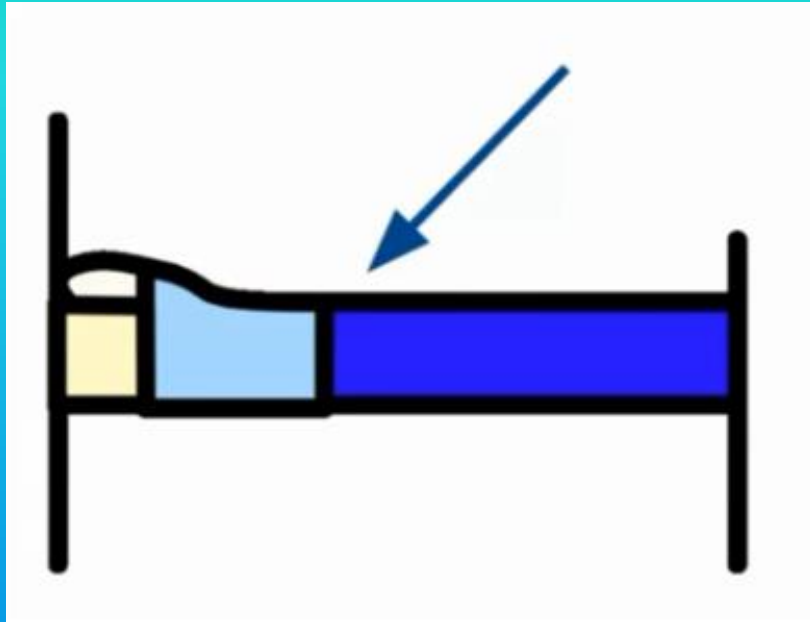
soft



object

Properties

material

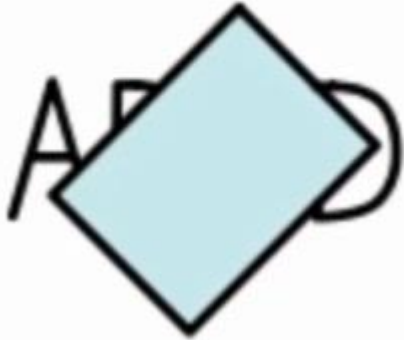


My duvet is made from fabrics.

Fabrics are _____ because _____.

Properties

opaque



transparent



What is a pair of glasses?

Properties

transparent



Did you get it?


object

Properties

material



 Glasses are made from glass.

 Glass is _____ because _____.

How would you describe a wall?



strong

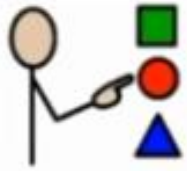


transparent

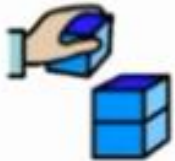


shiny

What I would like you to do?



1. Choose a material from each group.
Example: twigs or **lolly sticks**



2. Build a wall using the material



3. Use glue or tape to stick it in place if needed

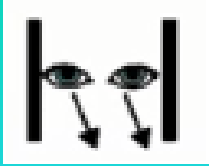


4. Keep it safe for next lesson!

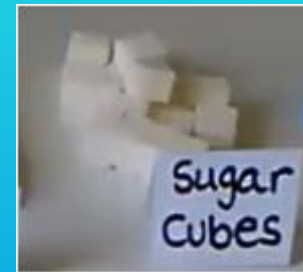
Scientist safety



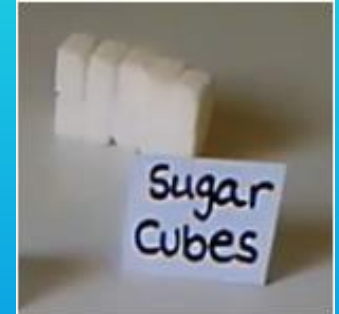
Your turn



Experiment time!



Keep your walls for the next lesson.



End of lesson quiz

What material could I use to build a wall?

1) What does waterproof mean? *

- ☐ Keeps water out
- ☐ Able to soak up liquid easily

2) Read the sentence. Is it true or false? Height means how long something is. *

☐ True

☐ False

3) Read the sentence. Is it true or false? Length means how tall something is. ★

☐ True

☐ False



Well done!



On



- Use different construction materials to build a wall or a house. Take a photo & share it.