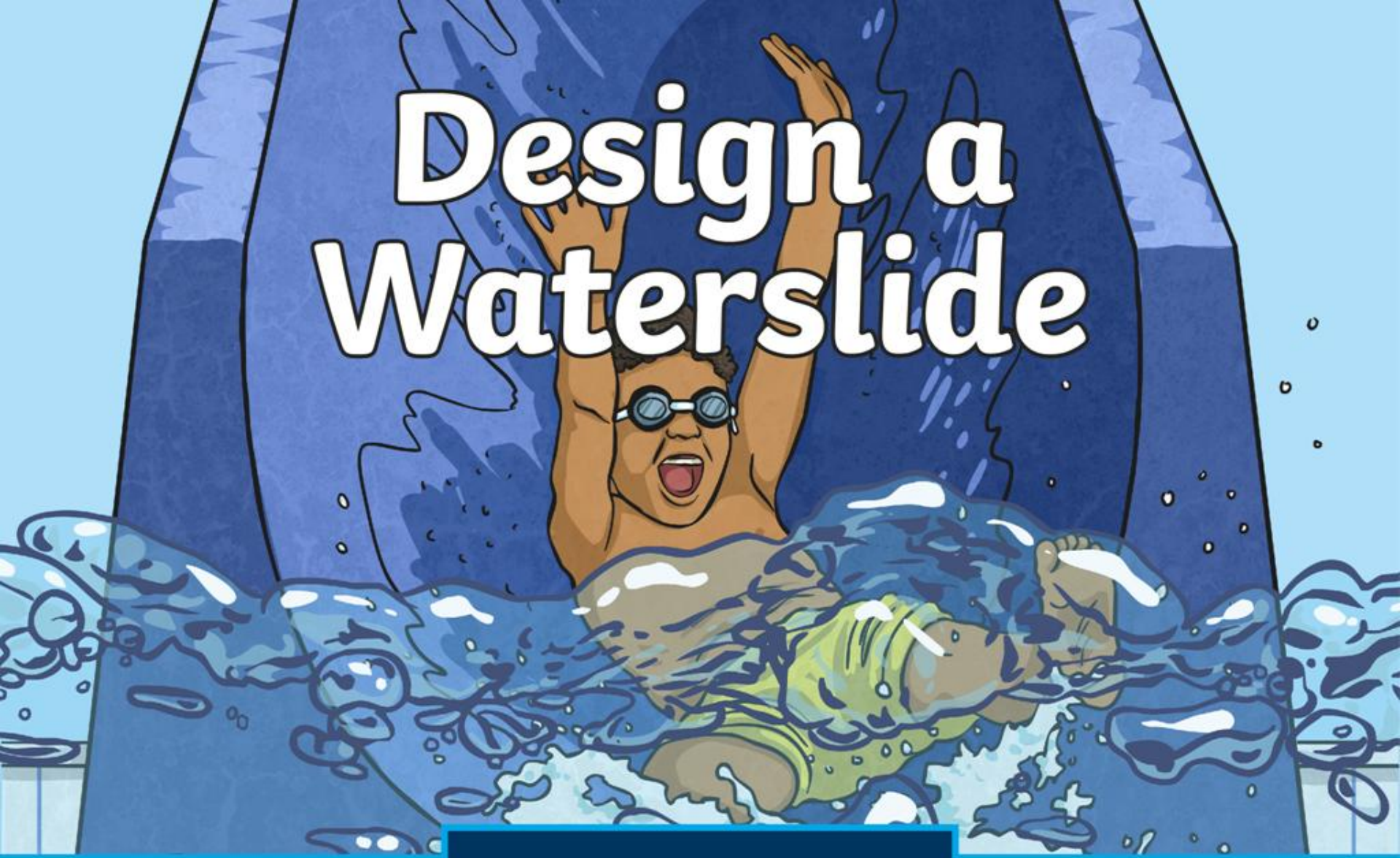
Design a Waterslide



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STEPS Engineers Week

Waterslides

Have you ever been on a waterslide?

Have you ever thought about how a waterslide works?

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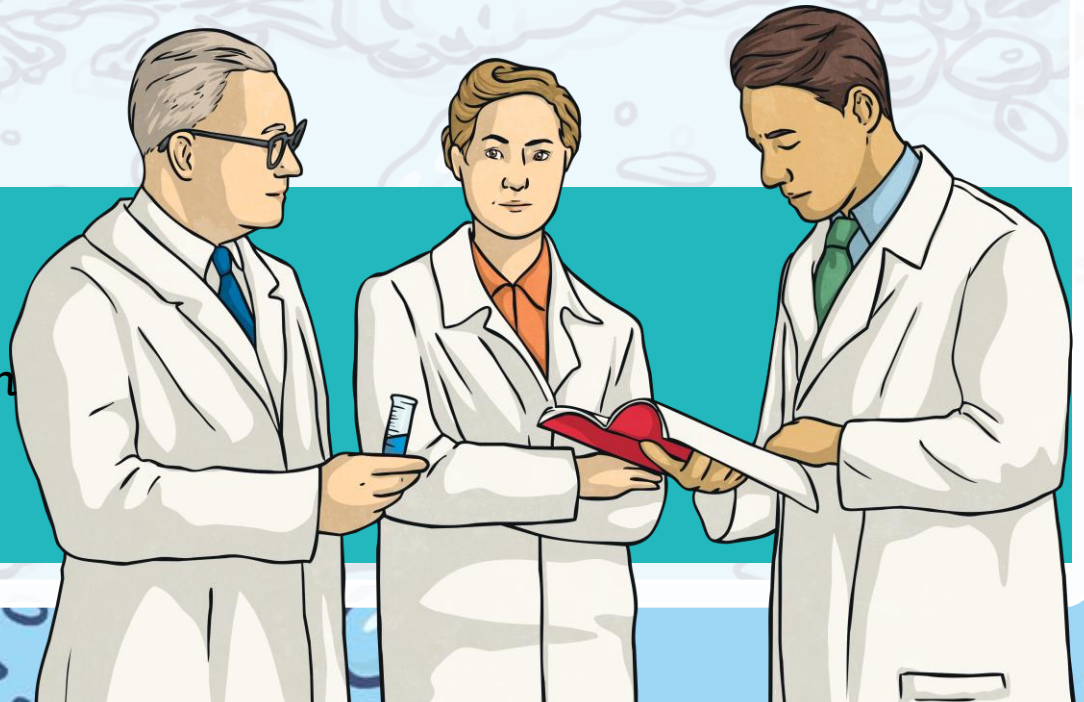
Waterslides

- Think about the science behind waterslides:
- **Gravity** brings the water and the rider down the slide
- There is **friction** between the rider and the slide
- Water is a **lubricant** between the rider and the slide
- The shape of the slide determines the **speed** – big curves give a smooth ride, steep drops give a fast ride



The Challenge

Your challenge is to design and make a waterslide that will support water and an object travelling down it safely to the bottom.

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Challenge Accepted!

1	First, you will need to research how waterslides work.
2	Next you will need to investigate different materials in order to decide which ones to choose.
3	You might want to run tests with different materials before making your final selection.
4	Then you will need to design and plan how you will create the waterslide. This will include making a blueprint of your design.
5	When you are happy, you can begin constructing your waterslide!
6	Afterwards you will reflect on what you did.

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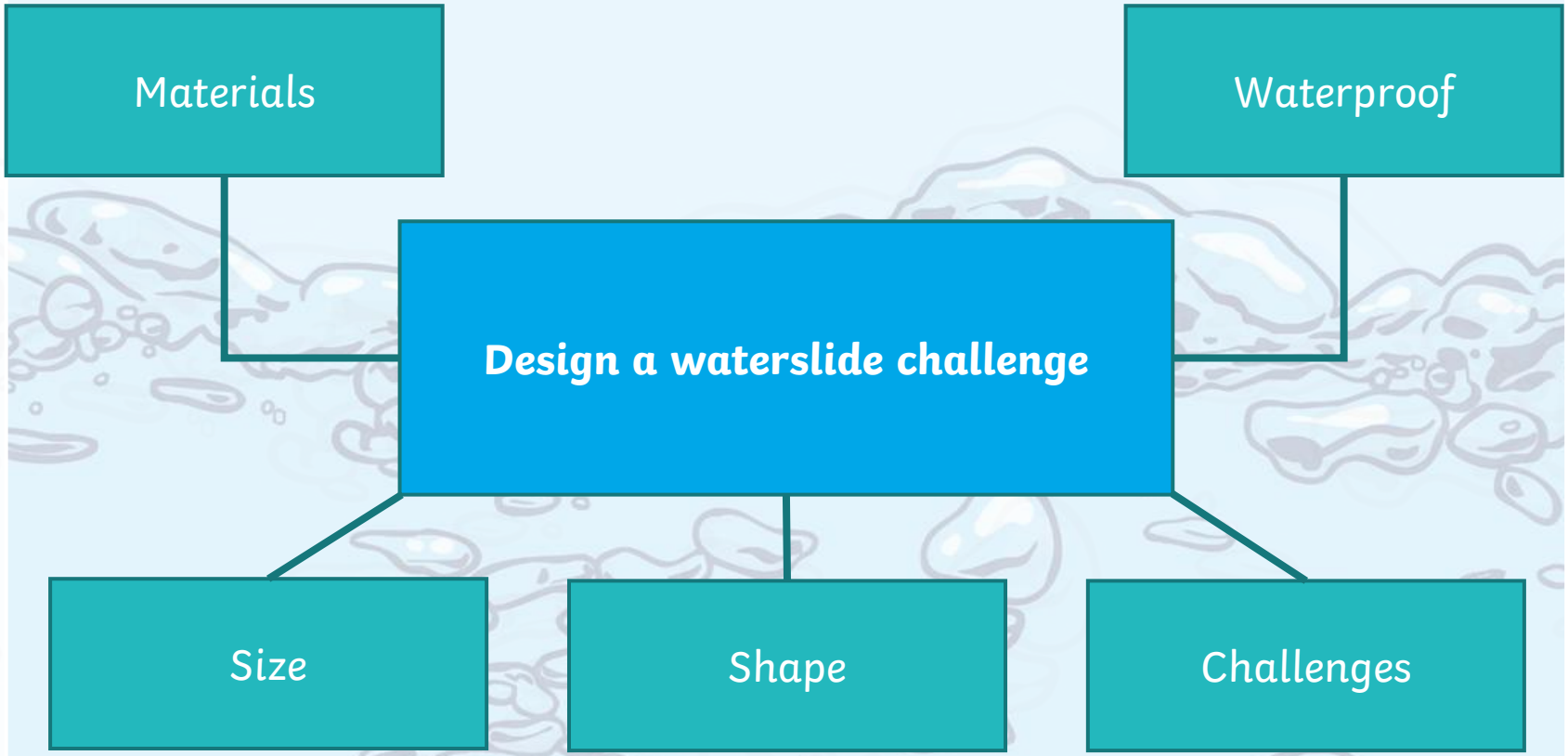
Materials Required

When selecting your materials you will need to consider:

- What materials are easily available to you at home?
- Are the materials waterproof?
- How will you test the effectiveness of your waterslide?

Mind Map



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Ready, Set, Go!

- Examine materials.
- Make a plan.
- Draw and label your blueprint.
- Build the waterslide.
- Test it out.
- Make any necessary adjustments.
- Test it again and have fun!
- Record your results.

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