



LESSON 10: REDUCING FLOODING (PART 1)

Aim

- To understand how we can reduce flooding throughout the catchment using flood schemes.

Lesson Objectives

- To learn what flood resilience is and the different types.
- To introduce different types of flood defences.
- To think of ways we can stop or reduce flooding.

Assumed Prior Knowledge

- Understand how flooding works and basic understanding that there are different ways that the risk of flooding can be reduced.
- If they live in a flood risk area, may be aware of the flood warning service, flood kits and sandbags.

Resources

- Property flood resilience (PFR) house spot the difference exercise - this can either be done using the slides or the worksheet printed out for pupils to circle themselves.
- Resistance and resilience labelling exercise on slides.

Assessment

- PFR spot the difference and resistance and resilience labelling exercise.
- Homework exercise: Think about how to use flood defences in real life for their own house.

Lesson Outcomes

- Name and briefly explain at least 2 types of flood defences.
- The difference between resistance and resilience and name 2 of each.
- Understand what (sustainable drainage systems (SuDS) are and name at least 2 types.

Differentiation

- Class discussion.
- Group work.
- Individual work.

Skills For Life

- Communication.
- How to be flood resilient.

Curriculum Links

- Geography, Science, Maths, Literacy



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The blank worksheets for this lesson can be found as a separate download within the lesson 10 page of the Flood Hub KS2 learning section. The answers for the worksheets can be found at the end of this document.

Key words within the PowerPoint lesson are highlighted in orange and the definitions of these words can be found in the glossary, which is available to download off the homepage.

Slide 1

- Slide containing the lesson aims and objectives.

Slide 2 – Recap: What is a Catchment?

- Explain what a catchment is then ask the class if they can name the **three** courses of a river.

Slide 3 – Recap: Who manages the risk of flooding?

- Ask the class if they can remember what each authority manages.

Slides 4 – Reducing Flooding

- Ask the class if they know any ways flooding can be reduced.

Slides 5 to 6 – Protecting Your Property

- Spot the difference exercise. This can be done on the screen with pupils putting their hand up to say what differences they spot. Or the worksheet can be printed out for pupils to circle the differences.
- Run through all the different ways a property can be protected with the labels on the slide.

Slide 7 – Property Flood Resilience (PFR)

- Explain what PFR is and how it can protect a building from flooding. The pupils should learn the difference between resistance and resilience.

Slide 8 – Sustainable Drainage Systems (SuDS)

- Explain what SuDS are and that they can help to reduce flooding.

Slides 9 and 10 – Protecting Your Property

- Ask the class to guess which ways to protect a property are flood **resistance**, flood **resilience**, and **SuDS**.
- Pupils can write down the different types of each into their workbooks.



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Slides 11 and 12 – Flood Schemes and Defences

- Explain how flood schemes can protect bigger parts of villages and towns from flooding and the different methods used.
- Pupils can copy these down into their workbooks.

Slide 13 – Lesson Recap

- Prompt the pupils to answer each question from what they have learned. Pupils can write the recap down in their workbooks.

Slide 14 – Homework

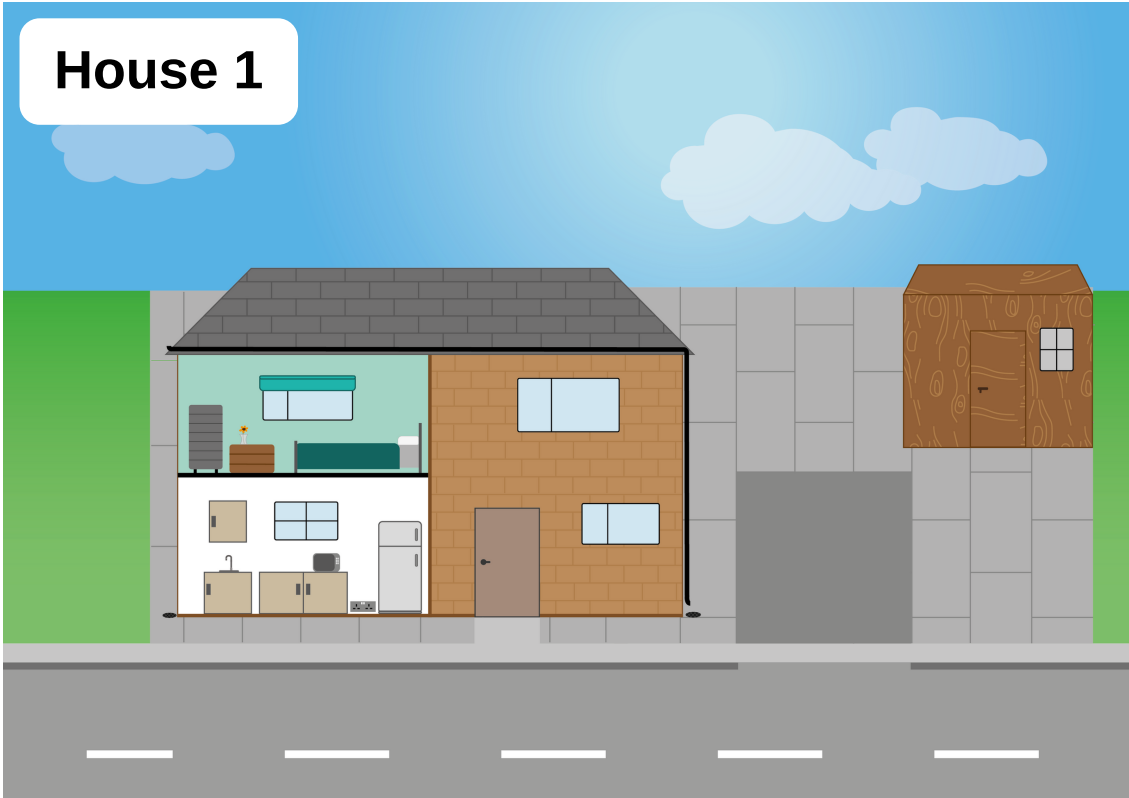
- The pupils should use what they have learnt in the lesson and previous lessons to think about where flood water could get into their own house and what they could use to stop it from entering.



WORKSHEET: PROTECTING YOUR PROPERTY

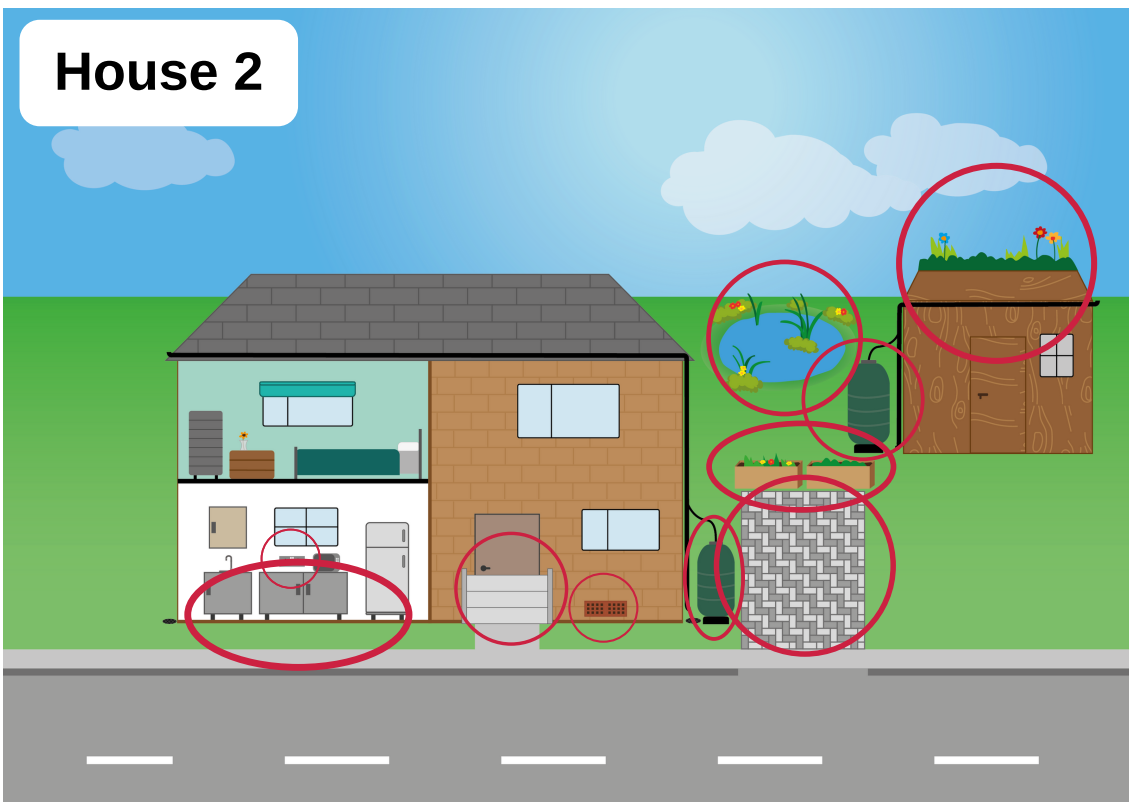
SPOT THE DIFFERENCE

House 1



Circle the 10 differences you can see in house number 2

House 2



Circle which house you think would be better protected from flooding

House number 1

House number 2