Explain this - Responses to flooding

Video summary	Before watching the video	During the video
A short film for secondary schools explaining the common responses to flooding and the methods employed to prevent and reduce flooding. Footage shows examples of hard and soft engineering techniques. It considers a range of responses to flooding and gives students the opportunity to determine which they believe are most effective and why.	Recap with students why flooding happens and the different types of flooding, for example river and coastal flooding. Ask students how we can minimise the impacts of flooding. What ideas can they come up with? **Introduce key terms such as:** **Hard engineering:** The construction of placement of physical barriers to manage that location. **Soft engineering:** Working with the environment to manage flooding or erosion.	You may wish to stop at relevant points during this short film to pose questions and check understanding or wait until the end. Useful questions might include: • What is hard engineering? • Give examples of hard engineering strategies. • What is soft engineering? • Give examples of soft engineering strategies. • Why is it useful to combine hard and soft engineering? • Can flood management completely prevent flooding?

After watching

This short film is an ideal tool to help students understand how humans respond to flooding. Combined with these two earlier films on coastal flooding and river flooding, this brings together the responses to, and impacts of, both types of flooding.

Look at a range of coastal and river management strategies. Give students photographs of each and ask students to annotate them with how they work and the advantages and disadvantages of each method. Students could also rank the different methods in order of how well they work.

Flood management is often controversial, and there are a range of opinions on them. Whilst looking at the different photographs of each method, ask students why some people may disagree with them.

Curriculum notes	Where next?	Links
This short film is relevant for teaching geography at KS3 in England, Wales and Northern Ireland and 3rd and 4th Level in Scotland. This short film helps meet the requirement of the Key Stage 3 national curriculum in geography requirement to develop and understanding of: • physical geography relating to: geological timescales and plate tectonics; rocks, weathering and soils; weather and climate, including the change in climate from the Ice Age to the present; and glaciation, hydrology and coasts.	Task students with creating a case study on either river or coastal flooding, for example they could look at the Boscastle floods or the 2013 coastal floods. Students should investigate the cause of the flooding, the impacts and the responses.	Coastal management: https://www.bbc.co.uk/bitesize/guides/z2234j6/revision/1 River management: https://www.bbc.co.uk/bitesize/guides/zg4tfrd/revision/3