

Innovating for the future

Planning for floods

About this activity

Flood risk management (FRM) is planning to help reduce the negative impact of flooding - for people, homes, businesses, infrastructure and the environment. There is a great deal of local and regional variation and FRM is constantly changing and evolving as the risk of flooding changes and evolves.

In this activity you will research and evaluate different approaches to FRM and create your own Flood Management Plan for your local area.

Time

2+ hours

Kit list

- ✓ Internet access

Next steps

Write a report about your project and submit it for a CREST Award at crestawards.org

Instructions

- 1 Research the risks of flooding in your local area.

- ✓ What weather conditions and scenarios are most likely to cause a flood?

- ✓ What would the impact be?

Create your own risk assessment, rating the different flood risks by likelihood and potential damage caused.

- 2 Think about the wider consequences of flooding in your local area. Which are the most problematic? Think about:

- ✓ Financial
- ✓ Social
- ✓ Infrastructure
- ✓ Business
- ✓ Domestic
- ✓ Agriculture
- ✓ Ecology (plants and habitat)
- ✓ Water quality

- 3 Research current flood management in your local area. Are the plans effective? Are there other parts of the world in a similar situation? Could you incorporate their strategies into your plan? How will you evaluate which measures have been successful or unsuccessful?

- 4 Use your research to build your own plan. You will need to consider mitigation and adaptation measures and consider:

- ✓ Who needs to be involved in flood management in your local area?

- ✓ What practical implications does your plan have in terms of costs and changes to infrastructure? Will your plan affect the local environment?

- ✓ Will any of your measures affect local people? How? What might the reaction be?

Use this Development and Flood Risk Practice Guide to help structure your plan: assets.publishing.service.gov.uk

- 5 Get some feedback and improve your plan. You could contact the local council or a water company to get a professional opinion.

At home

The UK is affected by six main types of flooding. Do you know what the differences are? Do some research to find out what causes these different types of floods, what the impacts are and what can be done to mitigate the risk of flooding.

Watch out!

Make sure you think about your research sources - are they reliable?



Type of flood	Description	Causes	Impacts	Mitigation options
River flooding				
Coastal flooding				
Surface water flooding				
Groundwater flooding				
Sewer flooding				
Reservoir flooding				

Worksheet Planning for floods



At home

The UK is affected by six main types of flooding. Do you know what the differences are? Do some research to find out what causes these different types of floods, what the impacts are and what can be done to mitigate the risk of flooding.

Career options

Flood risk management opens a great range of exciting career opportunities such as being a Water Resources Planner, Demand Forecaster,

Research scientist/ Educator, Flood Defence Engineer, a Flood Warning Officer, working in Consultancy, as a flooding expert or working overseas in International Development and Emergency Relief.

Skills set

Patient, self-motivated, hard-working