

Flooding stimulus questions

What causes flooding?

1. The hydrological cycle?
2. Infiltration and runoff from built-up areas?
3. Stream capacity?
4. Blockage of culverts?
5. Effects of global climate change?

What are some of the consequences of flooding?

1. Frequency of serious floods?
2. Risk to property? Where and how often?
3. What warning systems might be used?
4. Can the residents get insurance? Is it a good investment for insurance companies?
5. What is the cost of flood damage, and the cost benefit of spending on flood defences?

What types of flood defences could be considered?

1. Increasing stream capacity to pass more flow?
2. Detention of storm water further upstream?

Sustainability issues

1. What are the effects on different people – townspeople, farmers, people in other communities nearby, many others?
2. What are the environmental impacts, eg on habitat?
3. What are the maintenance issues? How long will it last?
4. What is the carbon footprint of your defences?