

ST. AIDAN'S STANDARD

WATER BOTTLE



PENCIL CASE:

- TWO BLACK PENS,
- TWO GREEN PENS,
- RULER,
- 2 SHARP PENCILS,
- RUBBER,
- SCIENTIFIC CALCULATOR



READING BOOK



WE ALWAYS WRITE IN OUR BEST HANDWRITING

We write the numerical title and date and underline with a pencil and ruler:

We always start sentences with capital letters.

We write down key terms, dates and facts in this area.

We summarise our learning.

THIS IS HOW WE PRESENT OUR BOOKS:

16.01.23

Managing Rivers - High risk Engineering

SMART:

1. Geology is a physical factor which may increase flood risk ✓
2. Lag time is the time taken between peak rainfall and peak discharge. ✓
3. Vertical erosion is when the river erodes downwards due to gravity. ✓
4. Vegetation is a physical factor which reduces flood risks. ✓
5. Deforestation can increase flood risk. ✓
6. Tidal surges can cause floods. ✓

River Management - defending the land against the impacts of flooding and erosion

Hard engineering is a type of river management which involved man-made and usually highly visible projects. They are often very effective at preventing flooding from happening. Two disadvantages of these projects is that they can often look unattractive and are usually very expensive. Dams and reservoirs store fresh water to supply our growing urban areas. This type of river management can be expensive but can also support local economy. In the York Press article on the York Foss barrier the benefits of this risk management outweighed the expense as the effectiveness of the barrier has allowed the local economy of York to improve due to fewer floods.

Summary

There are four key forms of river management: dams & reservoirs, Channel straightening, embankment and flood relief channels. Each of these have benefits and disadvantages. Many are expensive and take time to construct. However the best strategies ensure the natural habitat is supported whilst reducing flooding risks. Summarise the strategy with the most effective strategy. Embankment is the most effective risk management strategy as it allows natural habitats to be maintained and it is relatively cheap in comparison to others.

We always write in black pen

We always write in full sentences

We include references to our scholarly reading.

We always respond to feedback in green