

Resource 9: Guidance notes

Activities 9.1 – 9.4

Activity 9.1 Technical terms and shoreline management plans

Use the Environment Agency (EA) website [here](#) to deepen your understanding of coastal erosion zones and how this aspect of coastal management is estimated in the short, medium and long-term.

Identify the three phases for predictive erosion rates starting from 2010 (when the data to support the predictions was first established). In some of the materials used by the EA and partners, the three periods of predictive change are known as Epochs.

Use the EA website [here](#) to widen knowledge of the technical terms used within Shoreline Management Plans (SMP) and gain a deeper understanding of the important features that underpin such plans.

Extension exercise

To see examples of 22 SMPs click [on this link](#). This route of enquiry considers parts of the SMP 12 Beachy Head to Selsey Bill and SMP 13 Selsey Bill to Hurst Spit. SMPs are complex, sometimes highly technical reports. They contain valuable information for students who want to carry out their independent investigation on coastal management strategies.

Activity 9.2 Medmerry Managed Realignment Scheme

The EA web materials relating to [the Medmerry Scheme](#) provide a detailed account of the need for realignment at this location. The materials (including 126 photographs) provide information to explain how the realignment was achieved along with the benefits resulting from the scheme. Watch the 6-minute video clip for a summary.

Select six photographs and six 'stills' from the video to support a concise report outlining the:

- need for the scheme
- the method used to create the realignment
- the stakeholders (players) involved
- the benefits of the scheme.

If time is limited, [use the summary document here](#).

The concise description of the scheme is supported by the use of a large-scale Ordnance Survey map accessed through [Bing](#). Use the zoom function to explore large-scale maps.

Extension exercise

The scheme exemplifies how coastal management can be undertaken alongside habitat creation and management. See the RSPBs information section [here](#). Also see the materials on the construction company Team van Oord [here](#). Explore how coastal management can have positive impacts on the environment and the local economy.

Activity 9.3 Shoreham-by-Sea, Hold the Line scheme

For a detailed review of this scheme there are a wide range of EA materials available. For those who have the time, updates relating to Shoreham can be found [here](#). Students who are considering focusing on coastal management for their independent investigation will need to keep updated in this way. For a concise summary of the scheme read [the main contractors' update](#).

Use visual clues to identify the reasons why this site has been designated as a 'hold the line' scheme.

Use the contractors' report alongside Ordnance Survey maps accessed through [Bing Maps](#). Use the postcode BN43 5RG. Make use of the aerial images available via the drop-down menu (top right). Use

maps at different scales (the zoom function) to gain a range of spatial perspectives. Oblique photo views (available through Google Earth) provide a further insight. Use the post code **BN43 5RG** in the search box.

Extension exercise

Social media is increasingly used to keep local people up to date on construction projects such as the Shoreham scheme. This is exemplified [here](#). List the pros and cons of this new form of information sharing.

Activity 9.4 Decision-making exercise – Formulate your view on the key principles that should be used to shape Shoreline Management Plans (SMP)

The task sheet can be found [here](#).

Activity 9.5 An extension exercise – using the power of the sea to protect the land

Plans to use Dutch expertise to protect the coastal environment of Norfolk are being considered. Two YouTube videos illustrate how natural processes can deliver coastal protection, ecosystem creation and leisure opportunities after soft engineering, through a major beach nourishment scheme, has taken place.

[Video 1](#) is called *The Sand Motor - Five years of Building with Nature* (7 minutes 18 seconds) (2016)

[Video 2](#) is called *The Sand Motor Model* (2 minutes 20 seconds), produced by the Dutch Ministry of the Environment.