

Map Detectives! Mapping Land Uses

Student Introduction

- ▶ Let's investigate different types of land use along Southampton Water!
- ▶ First you will practise identifying land use from maps and in your local area.
- ▶ Then you can put your skills to the test on board the Isle of Wight ferry!



Pre-Visit: AT SCHOOL

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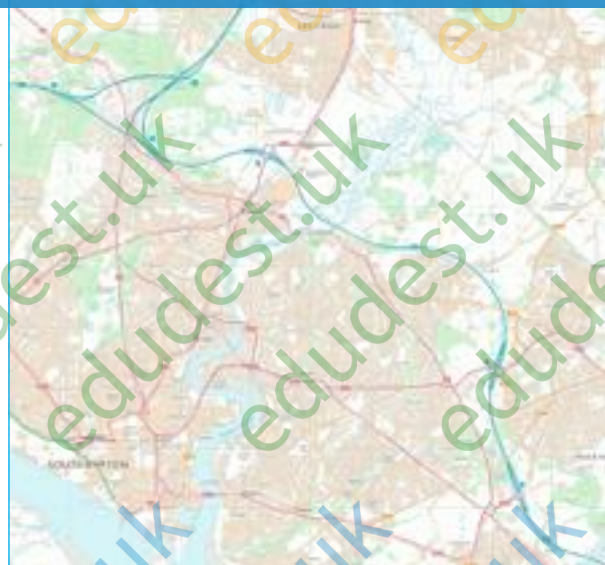
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When you travel to the Isle of Wight you will board a ferry at Town Quay, Southampton, operated by Red Funnel Ferries. This will take you along Southampton Water and across the Solent, which is the area of water separating the mainland and the Isle of Wight. You will arrive at East Cowes on the island.

Southampton is a city in Hampshire, on the south coast of England. There has been a settlement here since the Stone Age. Its geographical location on Southampton Water, its proximity to the ancient Wessex capital of Winchester and the modern day English capital of London, made it into an important and thriving urban area.



Today the Port of Southampton is an international transport hub operating 24 hours a day, 365 days a year.

It is the UK's premier international maritime gateway, and everything from sailing yachts to oil tankers, ferries, cargo ships and cruise liners all make their way up and down Southampton Water each day.

During this activity you will be finding out about the variety of different land use found around Southampton Water.



Pre-Visit: AT SCHOOL

Complete the exercises below.

Write your own definition here of what you think the term “land use” actually means:

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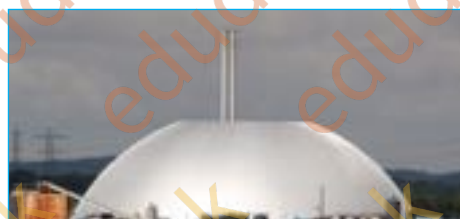
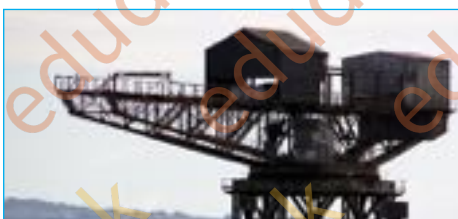
TYPES OF LAND USE

Land Use Categories

1 0 7 2 1 2

Here are some formal land use categories. Can you put the pictures below into the correct category? Write the category numbers into the boxes. You will see most of these on your ferry crossing.

1. Utilities & Infrastructure (e.g. energy production, water storage & treatment, post & telecommunications)
2. Community services (e.g. medical, education, places of worship)
3. Forestry
4. Retail
5. Minerals (quarries etc.)
6. Industry & Business
7. Recreation & Leisure
8. Previously developed land
9. Transport (including car parks)
10. Defence
11. Residential
12. Unused land
13. Agriculture & Fisheries

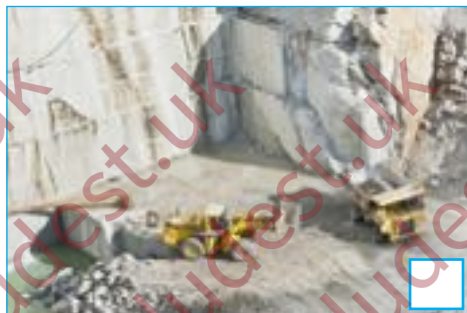
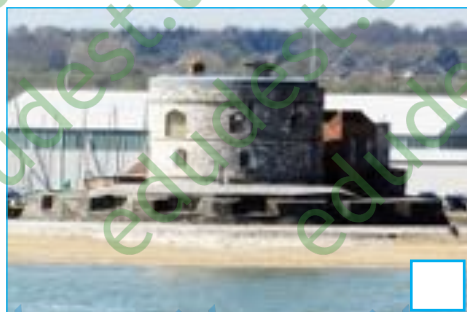
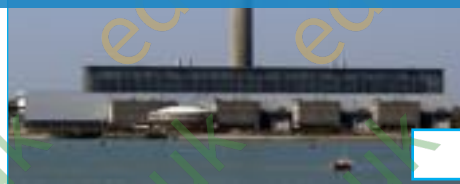
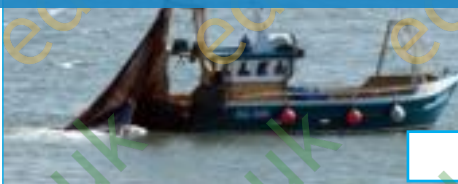
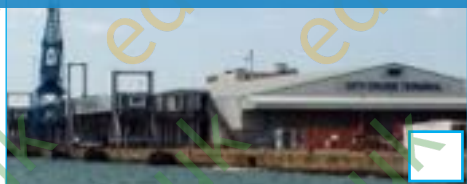


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Identifying land use on maps

Look at the following map extracts, each of which is from the Southampton area.

Add labels around each map to identify the different types of land use you can see. For each type of land use that you can identify, give the 6-figure grid reference.

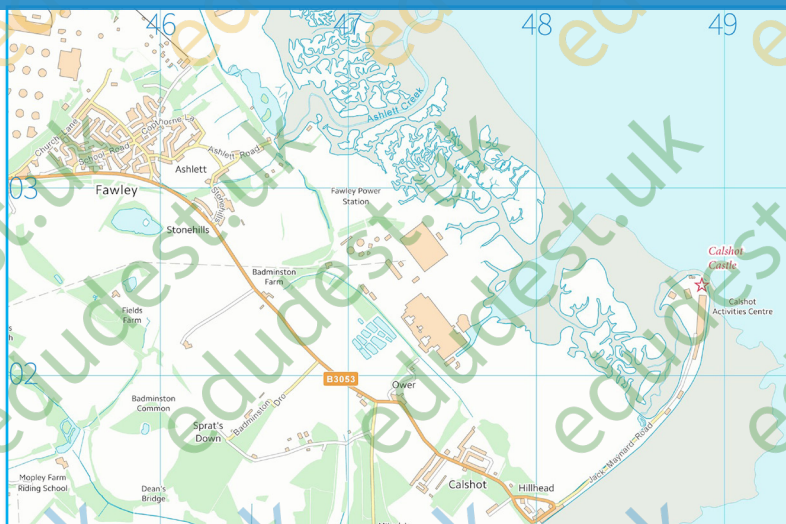


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IN YOUR LOCAL AREA

Your teacher will arrange for you to visit a local street where you will practise making observations about land use and record them into categories.

As you walk along the street observe the buildings on both the left hand side (LHS) and right hand side (RHS) as you go.

For each building, decide which land use category it comes under and record a tally in the correct place below. Once you have finished the walk, total up each category.

Residential		Retail		Industrial		Community		Recreation		Other	
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LHS RHS LHS RHS LHS RHS LHS RHS LHS RHS LHS RHS

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Totals											

Draw a coloured bar chart showing the totals for the different categories. You'll need to choose the scale based on the largest total.

Residential

Retail

Industrial

Community

Recreation

Other

ON BOARD THE FERRY



Section 4 is for you to undertake whilst on board the ferry.

Read the following instructions carefully. Your teacher will tell you who is working on which task.

You've now learnt what the term "land use" means, and you have practised identifying different types of land use, by looking at images, maps and actual buildings.

You are now going to put your **observational skills** and **map interpretation** skills to the test!

You will be divided into groups, and each group will investigate a different stretch of Southampton Water. You will be given a map extract of the area, and you will be asked to identify the different types of land use.

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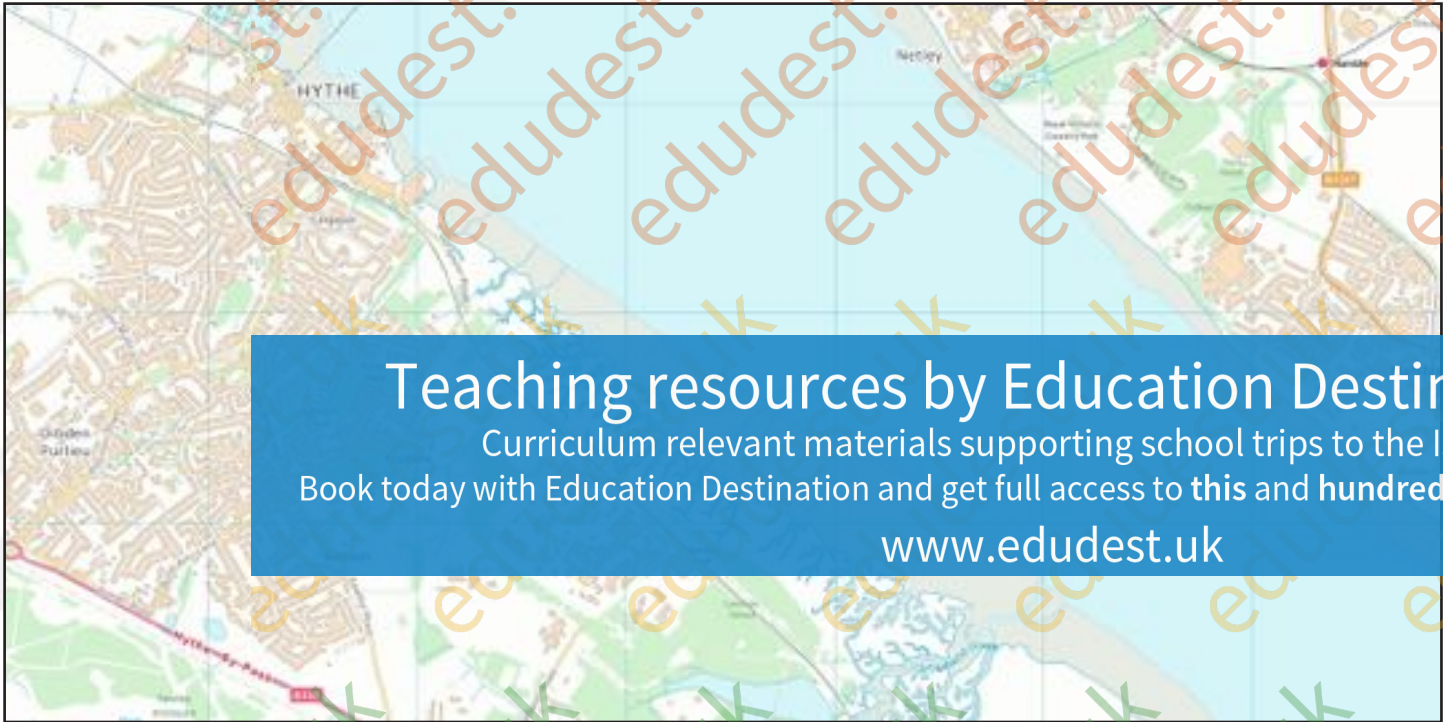
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provided with a blank 'frame'. Within the frame you should:

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1. Sketch the outline of Southampton Water as shown on your map extract
2. Look at the map and identify key types of land use. Use this information to design a key - this can be letters, symbols or colours (or a combination!) which represents the different types of land use
3. Fill in the key first (unless you are in one of the first two groups)
4. Use the key to carefully mark on your sketch map the different types of land use that you can see on your map. Be as accurate as possible with your sketch and make sure things are marked in the right location!
5. Observe what you can see from the ferry, and mark onto your sketch any different types of land use that you can identify
6. Take photos of key features which show different types of land use - you will need this back at school!





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GROUP 2

107212

- ▶ Look at land use around Hythe, which is on the right hand side as the ferry leaves Southampton (or the left on the way home!)
- ▶ Draw the outline of the coast in the box below left.
- ▶ Make your observations of land use, both from the ferry as well as from the map. You can see from the map what you can see on the map
- ▶ Take photos of key features. Each time you take a photo, mark the location on your sketch map so that you can put it in the right place later!

KEY:



GROUP 3

107212

- ▶ Look at land use around Netley, which is on the left hand side shortly after the ferry leaves Southampton (or the right on the way home!)
- ▶ Draw the outline of the coast in the box below left.

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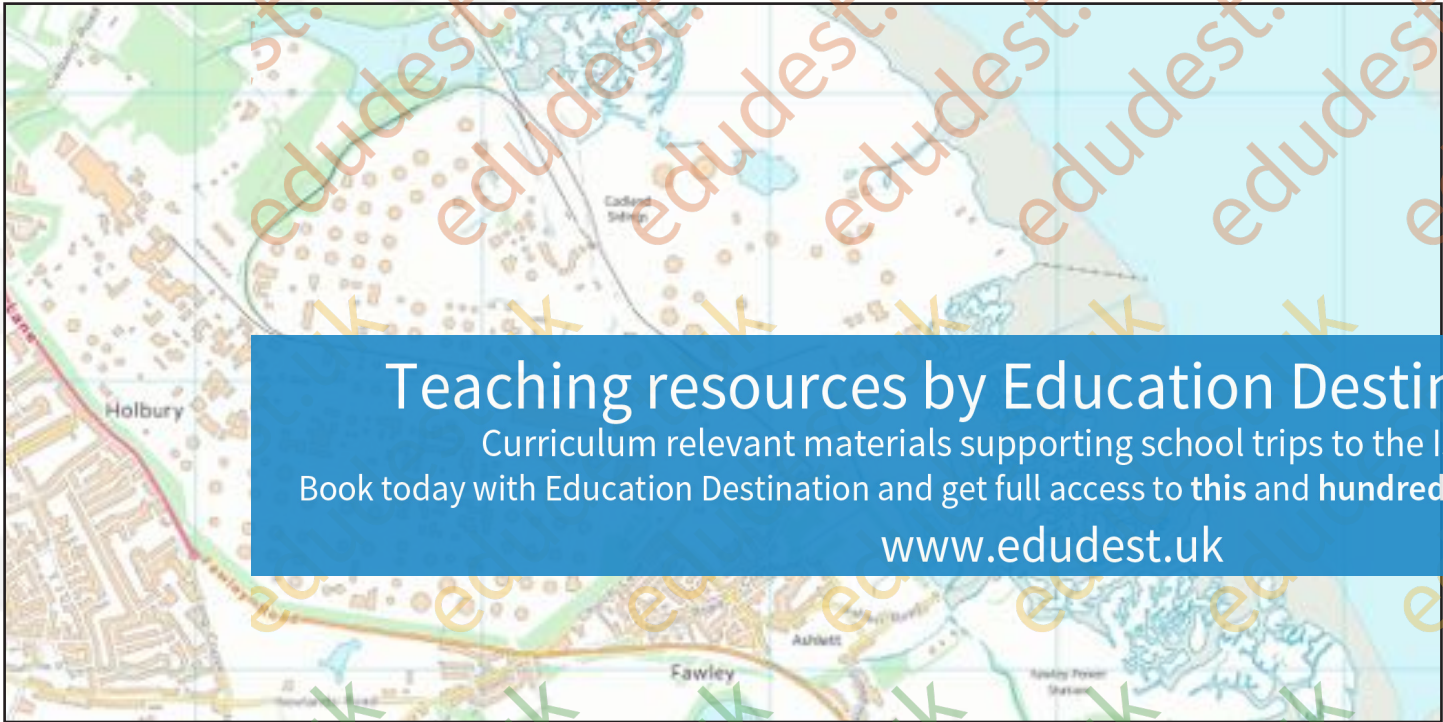
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e of Wight what you can see from the ferry as well as
more quality resources what you can see on the map

- ▶ Remember to take photos of key features. Each time you take a photo, mark the location on your sketch map so that you can put it in the right place later!

KEY:



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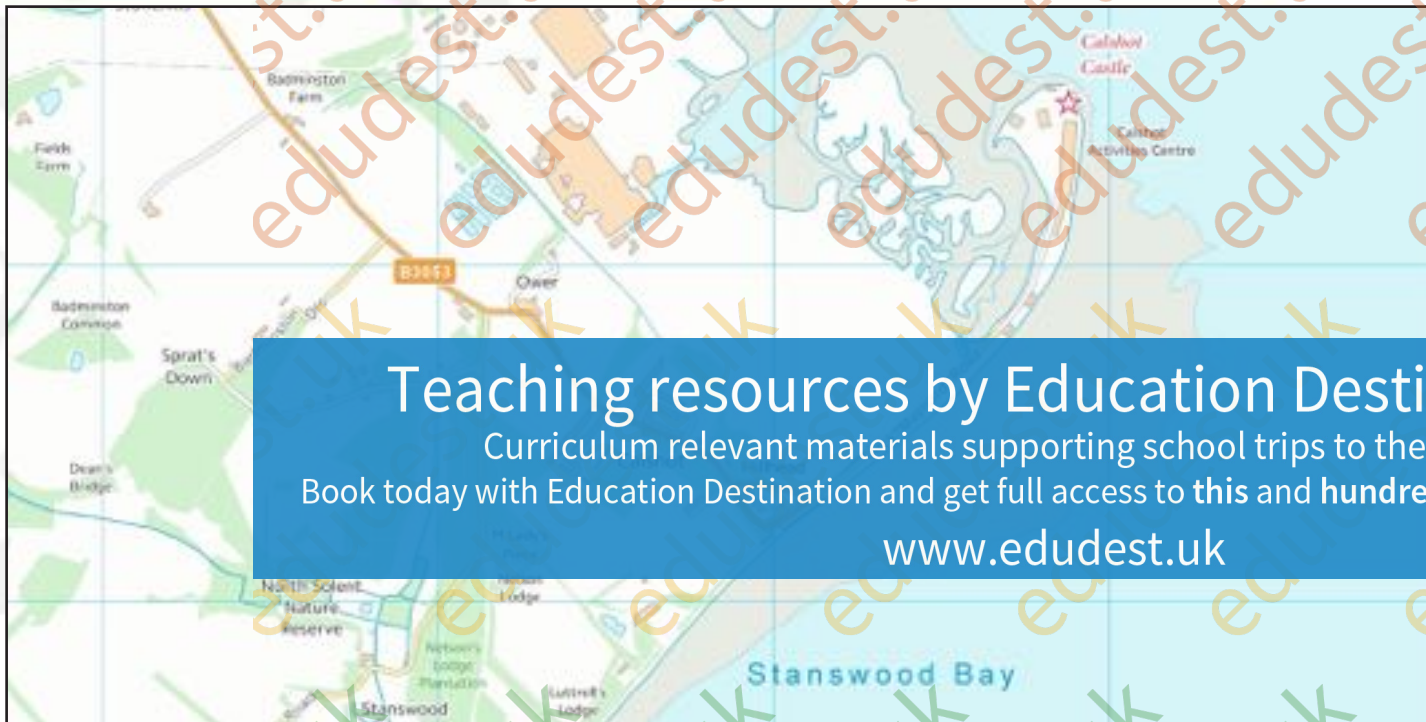
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- ▶ Look at land use around Fawley, which is on the right hand side around 15-20 minutes after the ferry leaves Southampton (or the left on the way home!)
- ▶ Draw the outline of the coast in the box below left.
- ▶ Remember to take photos of key features. Each time you take a photo, mark the location on your sketch map so that you can put it in the right place later!

KEY:



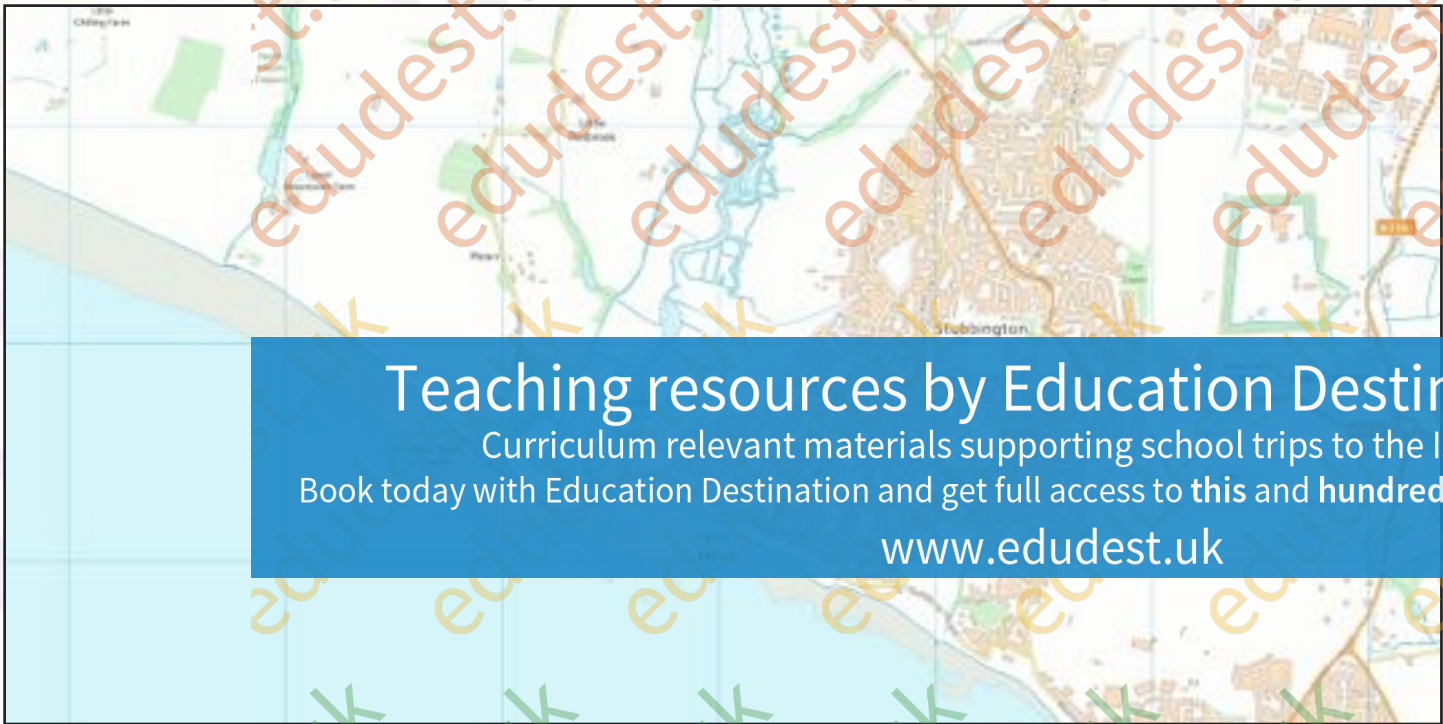
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GROUP 6

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- Look at land use around Calshot, which is on the right hand side around 30 minutes after the ferry leaves Southampton (or the left on the way home!)
- Draw the outline of the coast in the box below left.
- Remember to take photos of key features. Each time you take a photo, mark the location on your sketch map so that you can put it in the right place later!

KEY:



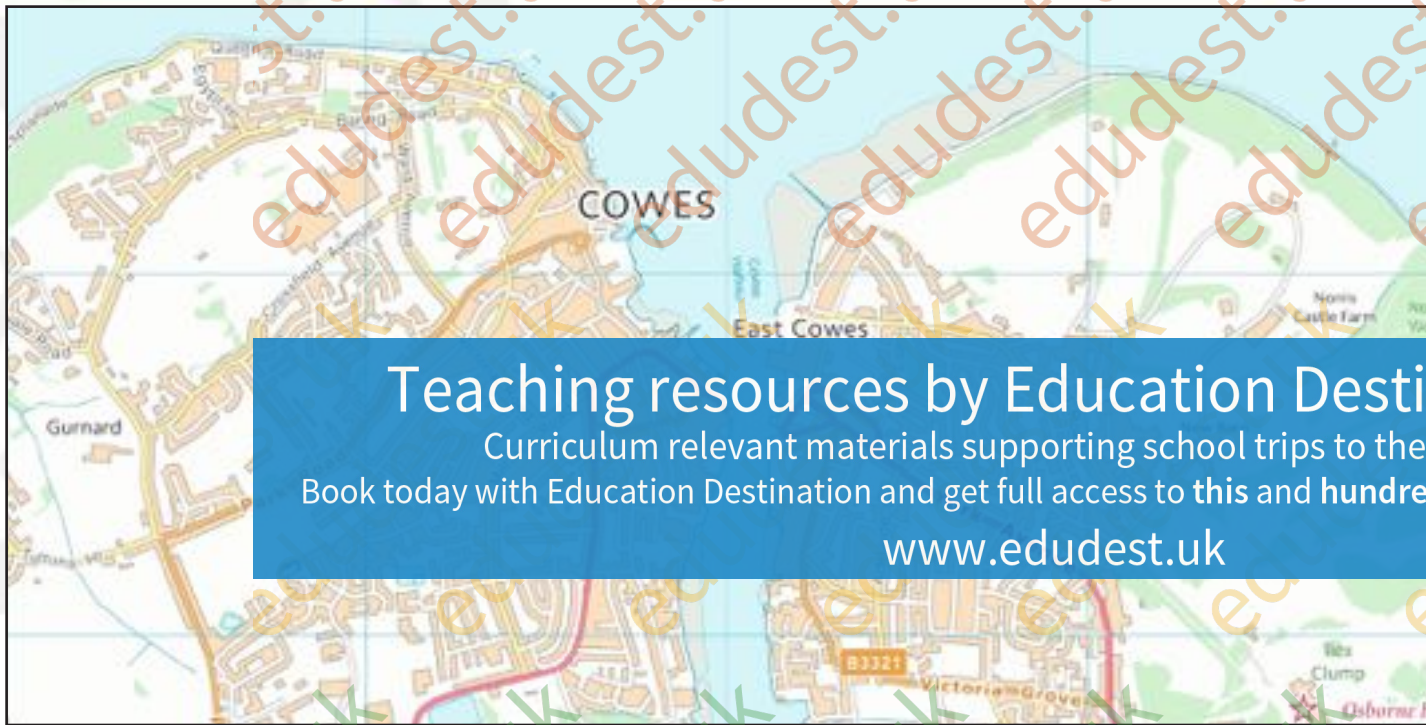
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GROUP 7

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- ▶ Look at land use around Stubbington, which is on the left hand side around 30 minutes after the ferry leaves Southampton (or the right on the way home!)
- ▶ Draw the outline of the coast in the box below left.
- ▶ Remember to take photos of key features. Each time you take a photo, mark the location on your sketch map so that you can put it in the right place later!

KEY:



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GROUP 8

107212

- ▶ Look at land use around Cowes, which is the ferry terminal on the Isle of Wight. Look on BOTH sides of the ferry - it might help to position yourself at the front or back of the ship.
- ▶ Draw the outline of the coast in the box below left.
- ▶ Make your observations of land use, both what you can see from the ferry as well as what you can see on the map.
- ▶ Remember to take photos of key features. Each time you take a photo, mark the location on your sketch map so that you can put it in the right place later!

KEY:



Post-visit: BACK AT SCHOOL!

Well done for completing the fieldwork!

This next activity is for when you are back at school.

Each group should now have a sketch map which shows the different types of land use for their 'part' of the journey along Southampton Water and over to Cowes on the Isle of Wight.

You will now be adding your photos to your sketch maps, and putting all of your sketch maps together to create a whole land use map for your journey!



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Things to Consider

- ▶ Looking at the different land use types along Southampton Water, are there any types which dominate?
- ▶ Are there any types of land use that you found little of, or none at all? Why do you think this might be?
- ▶ How do you think that the types of land use found along Southampton Water relate to its physical geography?
- ▶ Looking at the variety of land uses found along Southampton Water, outline the potential conflicts that you think may arise here. Give examples.

