

**Explain why many coastal areas have a high natural hazard risk. (4 marks)**

### Introducing the question

Students can be introduced to this question using the Kerboodle assessment:

#### 1 On your marks

This will help students to unpick the question and to decide what they should and shouldn't include in their answer.

### Using student resources

The student resources for this question are provided on the following pages. These resources provide flexible support for your students in answering the question. They can be printed and copied as required.

| Student resources  | Page  |
|--|-------|
| <p><b>Plan your answer</b></p> <p>This is a planning document to help students decide what to include and how to structure their answer.</p>   | 3–5   |
| <p><b>Write your answer</b></p> <p>This provides an answer sheet for students to complete their answer on paper in class or at home.</p>   | 6     |
| <p><b>Mark your answer</b></p> <p>This student-friendly checklist and mark scheme can be used for self- or peer-marking. It can also be used by students in assessing the sample answers.</p>                | 7     |
| <p><b>Sample answers</b></p> <p>Three sample answers, at a range of levels, are given. These could be used in a number of ways to demonstrate to students how to maximise their marks for this question.</p> | 8–10  |
| <p><b>Marked sample answers</b></p> <p>These marked and annotated versions of the three sample answers can be used by students to compare with their own marked sample answers.</p>                          | 11–13 |

Please note: Students do not automatically have access to the *On your marks* presentation or resources from Kerboodle. If you would like your students to access these resources, or to complete the *On you marks* question on-screen, you will need to assign these to your students in Kerboodle.

### Using the Kerboodle Markbook

If you would like to use the Kerboodle Markbook to monitor progress and record student marks for this question, you must assign **1 On your marks** to the students from the assessment tab. Students can type their answer onto the final screen of the presentation and then submit this to the Kerboodle Markbook **for marking**. Students' marks can then be entered into the Kerboodle Markbook and they will be informed automatically of their mark when they next log in to Kerboodle.

| Timing  | Spelling, punctuation and grammar (SPaG)                    |
|---|---|
| Under exam-style conditions, it should take students around <b>four</b> minutes to complete your answer to this question. | No additional marks are awarded for SPaG for this question. |

Name \_\_\_\_\_ Class \_\_\_\_\_

**Explain why many coastal areas have a high natural hazard risk. (4 marks)**

Before attempting to answer the question, remember to BUG it.

- ✓ **B**ox the command word.
- ✓ **U**nderline the following:
  - the **theme**
  - the **focus**
  - any **evidence** required
  - the **number of examples** needed.
- ✓ **G**lance back over the question – to make sure you include everything in your answer.



**Command word** = Explain. Give reasons why. You will not get marks for pure description.

**Focus:** The focus must be the high hazard risk of **coastal** areas, not other areas (such as plate margins) that have high hazard risk.

Explain why many coastal areas have a high natural hazard risk. (4 marks)

**Number of examples:** The question refers to **many** coastal areas, so you must provide **evidence** from a number of named examples of coastal areas, not just one case study.

**Theme:** This question is related to the theme of Natural hazards, assessed in Paper 1, Section A of your GCSE exam. This question is compulsory. You need to be clear what type of natural hazard risk you are referring to.

Name \_\_\_\_\_ Class \_\_\_\_\_

**PEEL your answer**

Use **PEEL** notes to structure your answer. This will help you to communicate your ideas to the examiner in the clearest way.

- **Point** – Make two or three points in detail, rather than lots of points in less detail. Don't use bullet points.
- **Explain** – Give reasons by using sentence starters such as: *'This is because ...'*, *'One reason is ...'*
- **Evidence** – Include facts and other details from named examples to back up your point. Each point – with explanation and evidence – should represent a separate PEE paragraph.
- **Link** – To link different points to each other, use PEE sentence starters such as: *'Another important point is ...'* or *'Of more importance is ...'*. Make sure your conclusion also links back to the question.



**Quality not quantity:** You will not be marked simply on the number of points you make, but on the quality of your answer. That means the quality of the content and how well you structure your answer.



**SPaG:** You are not awarded extra marks for spelling, punctuation and grammar for this question. However, you could miss out on marks if your spelling, punctuation or grammar is poor, so always check your answer carefully.

Name \_\_\_\_\_ Class \_\_\_\_\_

**Planning grid**

Use this planning grid to help you write high-quality paragraphs. Remember to include links to show how your points relate to each other and to the question.

|          | PEE paragraph 1 | PEE paragraph 2 | PEE paragraph 3 |
|----------|-----------------|-----------------|-----------------|
| Point    |                 |                 |                 |
| Explain  |                 |                 |                 |
| Evidence |                 |                 |                 |

Name \_\_\_\_\_ Class \_\_\_\_\_

Explain why many coastal areas have a high natural hazard risk.  
(4 marks)

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|                                   |  |             |  |
|-----------------------------------|--|-------------|--|
| <b>Strengths of the answer</b>    |  |             |  |
| <b>Ways to improve the answer</b> |  |             |  |
| <b>Level</b>                      |  | <b>Mark</b> |  |

Name \_\_\_\_\_ Class \_\_\_\_\_

**Explain why many coastal areas have a high natural hazard risk. (4 marks)**

This question is assessing the following assessment objectives (AO).

|            |   |         |
|------------|---|---------|
| <b>AO1</b> | Testing your knowledge of locations and processes                       | 2 marks |
| <b>AO2</b> | Testing your understanding of why coastal areas have a high hazard risk | 2 marks |

1. To help you identify if the answer includes well-structured PEE paragraphs, underline or highlight:



**Points** in red



**Explanations** in orange



**Evidence** in green

2. Use the mark scheme below to decide what mark to give. Do not award marks for every point included – instead, choose a level and a mark based upon the overall quality of the content, measured against the assessment objectives.

| Level            | Marks      | Descriptor   | Examples  |
|------------------|------------|--|---|
| <b>2 (Clear)</b> | <b>3–4</b> | <p><b>AO1:</b> Shows specific and accurate knowledge of at least one high natural hazard related to at least one named coastal area.</p> <p><b>AO2:</b> Shows sound understanding of why coastal areas have high natural hazard risks.</p>   | <p>The coast of Bangladesh often suffers from extensive flooding. This is caused by tropical revolving storms called typhoons that develop over the Bay of Bengal.</p> <p>Japan's location in a subduction zone near a destructive plate margin means that it is at risk of earthquakes. These earthquakes could also cause a tsunami, which could hit Japan's coastal areas.</p> |
| <b>1 (Basic)</b> | <b>1–2</b> | <p><b>AO1:</b> Shows some knowledge of coastal areas with high natural hazard risks. Simple basic statements are not developed and may be purely descriptive. Examples will not be named or specific enough.</p> <p><b>AO2:</b> Shows limited understanding of why coastal areas have high natural hazard risks.</p> | <p>Coastal areas are liable to flooding. There is a tsunami. There are many hurricanes. There may be earthquakes.</p>   |

# 1 Natural hazards

On your marks

Student resources

PLAN YOUR ANSWER

WRITE YOUR ANSWER

MARK YOUR ANSWER

SAMPLE ANSWERS

MARKED SAMPLE ANSWERS

Name \_\_\_\_\_ Class \_\_\_\_\_

**Explain why many coastal areas have a high natural hazard risk.  
(4 marks)**

## Sample answer 1

The coast of California lies on a conservative plate boundary that is moving. This causes earthquakes in coastal cities like San Francisco. These earthquakes occur along the San Andreas Fault. Scientists think that the area will suffer a big earthquake in the near future because there has not been one for a long time.

The low-lying country of the Philippines was devastated by typhoon Haiyan. The Philippines have a high hazard risk because they lie in the path of the typhoons, which are tropical revolving storms that develop over the warm seas of South-East Asia.

|                                   |  |             |  |
|-----------------------------------|--|-------------|--|
| <b>Strengths of the answer</b>    |  |             |  |
| <b>Ways to improve the answer</b> |  |             |  |
| <b>Level</b>                      |  | <b>Mark</b> |  |



# 1 Natural hazards

On your marks

Student resources

PLAN YOUR ANSWER

WRITE YOUR ANSWER

MARK YOUR ANSWER

**SAMPLE ANSWERS**

MARKED SAMPLE ANSWERS

Name \_\_\_\_\_ Class \_\_\_\_\_

**Explain why many coastal areas have a high natural hazard risk.  
(4 marks)**

## Sample answer 2

There is much destruction around the Indian Ocean. This is caused by tsunamis and typhoons. There are many hazards in this area. People are experiencing high hazard risk. The countries are poor and are not able to cope with these natural hazards. There is much destruction. People have to climb onto the roofs of their houses when the hazard arrives. The hospitals cannot cope and many people are killed or injured. It takes a long for help to get to the people.

|                                   |  |             |  |
|-----------------------------------|--|-------------|--|
| <b>Strengths of the answer</b>    |  |             |  |
| <b>Ways to improve the answer</b> |  |             |  |
| <b>Level</b>                      |  | <b>Mark</b> |  |

# 1 Natural hazards

On your marks

Student resources

PLAN YOUR ANSWER

WRITE YOUR ANSWER

MARK YOUR ANSWER

SAMPLE ANSWERS

MARKED SAMPLE ANSWERS

Name \_\_\_\_\_ Class \_\_\_\_\_

**Explain why many coastal areas have a high natural hazard risk. (4 marks)**

### Sample answer 3

Coastal areas are prone to natural hazards coming from the sea. These cause huge waves and sea surges, which flood settlements on the coast. Cities on the west and east coasts of the USA have a high hazard risk.

Running down the west coast through California, including the city of San Francisco, is the San Andreas Fault. This fault line is where two tectonic plates meet. Movement along this plate boundary causes earthquakes. San Francisco has suffered two major earthquakes and there is a high hazard risk that there will be another.

On the east coast there is the danger of hurricanes during the autumn. These tropical revolving storms develop over the warm waters of the Gulf Stream and move north-westwards over the Caribbean and the east coast of the USA.

|                                   |  |             |  |
|-----------------------------------|--|-------------|--|
| <b>Strengths of the answer</b>    |  |             |  |
| <b>Ways to improve the answer</b> |  |             |  |
| <b>Level</b>                      |  | <b>Mark</b> |  |

Name \_\_\_\_\_ Class \_\_\_\_\_

Explain why many coastal areas have a high natural hazard risk.  
(4 marks)

### Sample answer 1

The coast of California lies on a conservative plate boundary that is moving. This causes earthquakes in coastal cities like San Francisco. These earthquakes occur along the San Andreas Fault. Scientists think that the area will suffer a big earthquake in the near future because there has not been one for a long time. The low-lying country of the Philippines was devastated by typhoon Haiyan. The Philippines have a high hazard risk because they lie in the path of the typhoons, which are tropical revolving storms that develop over the warm seas of South-East Asia.

**Evidence:** Identifies an appropriate named location.

**Point:** Correctly links a specific hazard with the named location, also referring back to the question.

**Explanation:** Explains clearly why the area suffers from the hazard risk.

**Evidence:** Identifies a second appropriate named location, linking it to a different specific hazard.

**Explanation:** Explains clearly why the area suffers from the hazard risk.

**Feedback:** Clear answer that accurately explains why two different natural hazards are risks to two appropriate named locations.

**Level = 2 Marks = 4**

Name \_\_\_\_\_ Class \_\_\_\_\_

**Explain why many coastal areas have a high natural hazard risk.  
(4 marks)**

**Sample answer 2**

There is much destruction around the Indian Ocean. This is caused by tsunamis and typhoons. There are many hazards in this area. People are experiencing high hazard risk. The countries are poor and are not able to cope with these natural hazards. There is much destruction. People have to climb onto the roofs of their houses when the hazard arrives. The hospitals cannot cope and any people are killed or injured. It takes a long for help to get to the people.

**Point:** This statement is too vague.

**Evidence:** Identifies an appropriate named location, if rather large.

**Point:** Identifies and links appropriate hazards to the named location.

**Points:** These do not explain **why** many coastal areas are affected.

**Feedback:** Basic answer, with some attempt to link hazard risk to location. However, it refers to only one coastal area and there is no clear explanation of why that has a high hazard risk. The last three sentences move away from the focus of the question, straying into the area of responses to hazards.

**Level = 1 Marks = 2**

Name \_\_\_\_\_ Class \_\_\_\_\_

**Explain why many coastal areas have a high natural hazard risk. (4 marks)**

### Sample answer 3

Coastal areas are prone to natural hazards coming from the sea. These cause huge waves and sea surges, which flood settlements on the coast. Cities on the west and east coasts of the USA have a high hazard risk.

Running down the west coast through California, including the city of San Francisco, is the San Andreas Fault. This fault line is where two tectonic plates meet. Movement along this plate boundary causes earthquakes. San Francisco has suffered two major earthquakes and there is a high hazard risk that there will be another.

On the east coast there is the danger of hurricanes during the autumn. These tropical revolving storms develop over the warm waters of the Gulf Stream and move north-westwards over the Caribbean and the east coast of the USA.

**Explanation:** Although rather general, explains clearly **why** some coastal areas have a high natural hazard risk. It makes a good introduction, linking directly back to the question.

**Evidence:** Identifies an appropriate named location.

**Explanation:** Explains correctly and clearly **why** earthquakes occur along the San Andreas Fault.

**Point:** Shows good understanding that the occurrence of a hazard considerably increases future hazard risk in the same area.

**Evidence:** Identifies another natural hazard risk linked to an appropriate named location, again referring back to the question.

**Explanation:** Shows good knowledge of how hurricanes develop and then affect a named location.

**Feedback:** Clear answer that accurately explains why two different natural hazards are risks to two appropriate named locations.

**Level = 2 Marks = 4**