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### **GCSE**

3110U10-1



### **GEOGRAPHY**

**Unit 1: Changing Physical and Human Landscapes** 

TUESDAY, 21 MAY 2019 - AFTERNOON

1 hour 30 minutes

| For Examiner's use only      |    |  |  |  |  |  |  |  |  |
|------------------------------|----|--|--|--|--|--|--|--|--|
| Maximum Mark<br>Mark Awarded |    |  |  |  |  |  |  |  |  |
| Question 1                   | 28 |  |  |  |  |  |  |  |  |
| Question 2                   | 28 |  |  |  |  |  |  |  |  |
| Writing accurately           | 3  |  |  |  |  |  |  |  |  |
| Question 3                   | 24 |  |  |  |  |  |  |  |  |
| Question 4                   | 24 |  |  |  |  |  |  |  |  |
| Total                        | 83 |  |  |  |  |  |  |  |  |

either

or

### **ADDITIONAL MATERIALS**

Resource folder.

In addition to this paper you may use a calculator and a ruler if required.

### **INSTRUCTIONS TO CANDIDATES**

Use black ink or black ball-point pen. Do not use gel pen. Do not use correction fluid.

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer both questions in Section A.

Answer one question from Section B.

Write your answers in the spaces provided in this booklet.

If additional space is required you should use the additional page(s) at the end of this booklet. The question number(s) should be clearly shown.

### INFORMATION FOR CANDIDATES

The number of marks is given in brackets [] at the end of each question.

Your ability to communicate and organise your ideas will be assessed in questions that are worth 6 or 8 marks. The accuracy of your writing will be assessed in your answer to question 2(c)(iii).







### SECTION A – CORE THEMES

Answer all questions in this section.

### **THEME 1: Landscapes and Physical Processes**

- 1. (a) Study the OS map extract in the Resource Folder. It shows an area of coastline around Pwllheli in North Wales. A key for the OS map appears on the back page of the Resource Folder.
  - (i) Identify the landform A.

Tick (✓) one choice below.

[1]

| Landform          | Tick (√) |
|-------------------|----------|
| Beach             |          |
| Wave-cut platform |          |
| Headland          |          |

(ii) Give the six figure grid reference of the lighthouse at Point **B** on the map.

Tick (✓) one choice below.

[1]

| Grid reference | Tick (√) |
|----------------|----------|
| 348389         |          |
| 387349         |          |
| 349388         |          |
| 389348         |          |

(iii) Complete the following paragraph by <u>underlining</u> the correct answer in each of the brackets. [3]

The sand spit extends towards the *(west/north-east/north-west)* from Crochan Berw in grid square 3834. The distance to the lighthouse at Point B is *(0.6/2.5/0.3)* kilometres from Crochan Berw. The track along the northern edge of the sand spit is open to *(all traffic / horses only / pedestrians only )*.

|        | Describe the process of longshore drift.  |
|--------|---|
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| (v)    | Analyse how longshore drift and other processes have affected the shap landforms along the coastline on this map. Use evidence from the map to he |
|        | answer.   |
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### Flooding in Carlisle, North-West England, December 2015

### Photo 1



Photo 2



(i) Give the drainage basin process shown in **Photo 1**.

Tick  $(\mathcal{I})$  the correct answer from the box below.

[1]

| Process       | Tick (√) |
|---------------|----------|
| Infiltration  |          |
| Overland Flow |          |
| Interception  |          |
| Throughflow   |          |

| photographs. | [3] |
|--------------|-----|
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Suggest **one** impact of the 2015 flood on people in Carlisle. Use evidence from the

| <br> | <br> |  |
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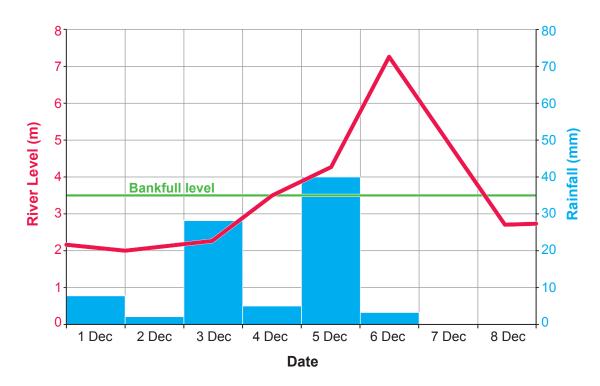


(ii)

31

(c) Study the storm hydrograph below.

### A storm hydrograph for the River Eden at Carlisle during the 2015 flood



| (i) | Bankfull level is the river level above which the channel overflows to cause a | flood |
|-----|--|-------|
| .,  | Give the number of days Carlisle was flooded.                                  | [1]   |

| (ii)                                    | Describe the relationship between rainfall and river level from 1 <sup>st</sup> to 8 <sup>th</sup> December [3 | }]    |
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### **End of Question 1**

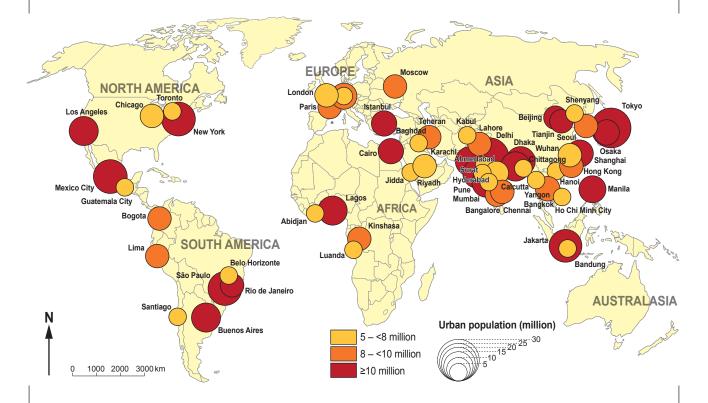


[3]

### **THEME 2: Rural-Urban Links**

2. (a) Study the map below.

### The World's Largest Global Cities



(i) Tick (✓) **three** statements in the box below that are true.

Statement True (✓)

Los Angeles is the largest global city.

The greatest concentration of global cities is in South Asia.

London has a population of less than 8 million.

New York has a population of 30 million.

The majority of global cities have a population of between 8 and 10 million.

Tokyo is the largest global city.



| (ii)    | Global cities often grow because of migration.  Describe <b>two</b> pull factors which can lead to migration to global cities. [4] |
|---------|--|
|         | Factor 1   |
|         |  |
|         | Factor 2   |
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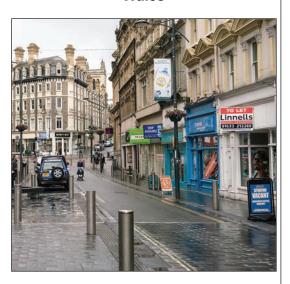
(b) Retailing is an important function in towns and cities in the UK. Retailing in UK towns and cities is changing. Study the data below.

### Openings and Closures of Shops in UK Urban Areas 2015-2016

### Type of Location Difference in number of retail units Town centre high street shops -373 Out of town retail park shops +304 Town centre shopping centre +22

Source: Local Data Company

### Vacant shops in Newport, Wales



(i) Give the type of location in which more retail units have closed than opened.

Nowport Couth Wales has one of the highest percentages of veces

Newport, South Wales, has one of the highest percentages of vacant city centre retail units in the UK.

| Total number of retail units in Newport city centre | Number of vacant retail units in Newport city centre |
|---|--|
| 507   | 138  |

Source: Local Data Company

[1]

(ii) Calculate the percentage of vacant retail units in Newport to one decimal place. Show your working. [2]

Answer .....



|     | (iii) | Give <b>two</b> reasons why many people prefer to shop in out of town retail parks that in town centre high streets.  [4]  Reason 1 |
|-----|-------|---|
|     |       | Reason 2  |
| (c) | (i)   | What is a brownfield site?  |
|     | (ii)  | Give <b>two</b> reasons why brownfield sites are often preferred to greenfield sites for new developments.  [4] Reason 1            |
|     |       | Reason 2  |
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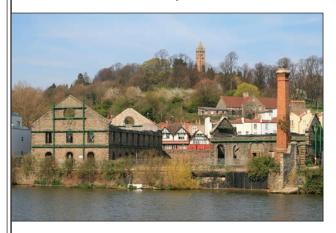
### (iii) Study the **Resource Box** below.

### **Resource Box**

In recent years, the dockland area of Bristol has undergone major change.

The development of Bristol Docks has created a commercial environment of café bars, restaurants, shops and other tourist and leisure facilities generating over 3 000 new jobs in a previously run-down part of the city. There are also sports facilities, an industrial museum and a maritime heritage museum.

### Part of Bristol Docks before redevelopment



Millennium Square, Bristol Docks



**Bristol Docks Waterfront** 



New housing development in Bristol Docks



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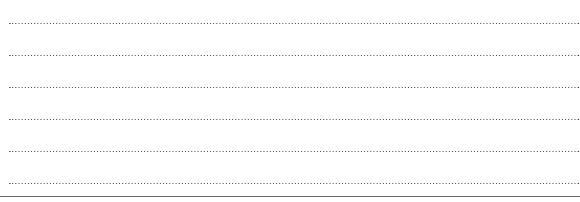
To what extent do you agree that sites such as Bristol Docks have been developed sustainably?

Use the **Resource Box** and **Egan's Wheel** to support your answer. You may also refer to examples you have studied. [8]

The accuracy of your writing will be assessed in your answer to this question. [3]

### Egan's Wheel







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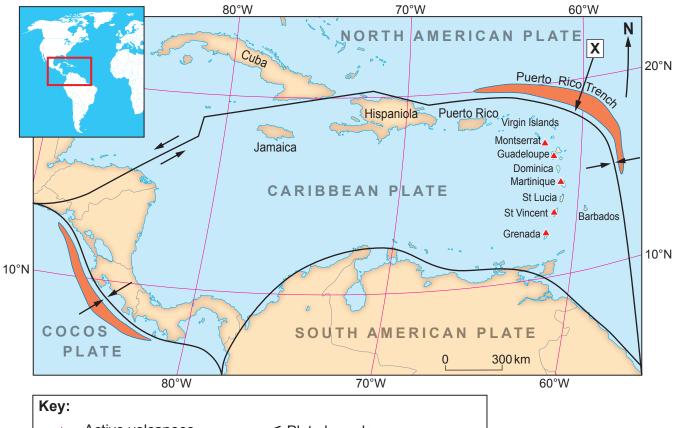
### **SECTION B - OPTIONS**

Answer one question in this section, either Question 3 or Question 4

### **THEME 3: Tectonic Landscapes and Hazards**

3. Study the map below.

### Plate boundaries in the Caribbean region



| Key:                               |                             |
|------------------------------------|-----------------------------|
| <ul><li>Active volcanoes</li></ul> | Plate boundary              |
| Trench                             | Direction of plate movement |

| (i) | Give the name of <b>one</b> active volcanic island shown on the map. | [1] |
|-----|--|-----|
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Complete the box below to give the latitude and longitude of Puerto Rico. [2] (ii)

|             | Latitude | Longitude |
|-------------|----------|-----------|
| Puerto Rico | 18°      | ° West    |



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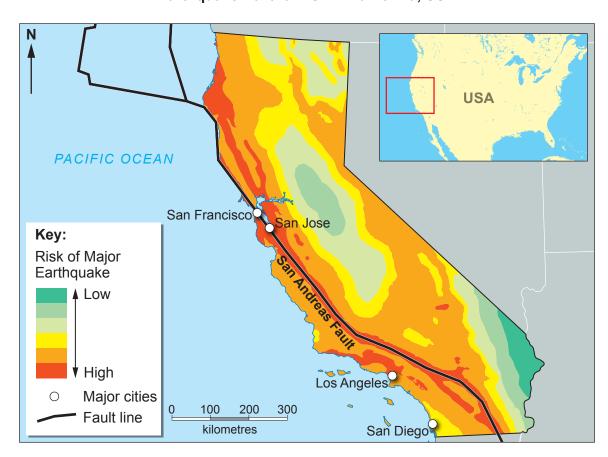
| mantle rift valleys core constructive subduction conservative convection divergence destructive stratovolcanoes crust hot spots  The Earth's  | (iii) | Complete the following | lowing paragraph            | n choosir  | ng your a  | inswers from the   | box below.  |
|---|-------|------------------------|-----------------------------|------------|------------|--------------------|-------------|
| destructive stratovolcanoes crust hot spots  The Earth's is made up of segments called plates which move relative to each other. At X, the Caribbean Plate is colliding with the North Amer Plate. This is called a plate margin where the process of leads to one plate sinking underneath the other and mel Landforms like are often formed at this type of boundar (iv) Explain why ocean trenches are formed where two plates collide. You may underneath the other and mel candidates are formed where two plates collides.  |       | mantle                 | rift valleys                | core       | cons       | structive          |             |
| The Earth's is made up of segments called plates which move relative to each other. At <b>X</b> , the Caribbean Plate is colliding with the North Amer Plate. This is called a plate margin where the process of leads to one plate sinking underneath the other and mel Landforms like are often formed at this type of boundar (iv) Explain why ocean trenches are formed where two plates collide. You may underneath the other and mel plates are formed where two plates collides.   |       | subduction             | conservative                | conve      | ection     | divergence         |             |
| move relative to each other. At <b>X</b> , the Caribbean Plate is colliding with the North Amer Plate. This is called a   |       | destructive            | stratovolcano               | oes        | crust      | hot spots          |             |
| Plate. This is called a plate margin where the process of | The I | Earth's                |                             | is mad     | le up of s | segments called    | plates whic |
| Landforms like are often formed at this type of boundar (iv) Explain why ocean trenches are formed where two plates collide. You may u  | move  | e relative to each o   | other. At <b>X</b> , the Ca | aribbean   | Plate is   | colliding with the | North Ame   |
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| (iv) Explain why ocean trenches are formed where two plates collide. You may u  |       |                        | leads to or                 | ne plate s | sinking u  | nderneath the of   | ther and me |
|   | Land  | forms like             |                             | are        | often fo   | rmed at this type  | e of bounda |
|   | (iv)  |                        |                             | formed v   | where tw   | o plates collide.  | . You may u |
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(b) Study the map below.

### Earthquake Hazard Risk in California, USA



|       | Describe the pattern of high risk earthquakes in California.  | [3]             |
|-------|---|-----------------|
| ••••• |   |                 |
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| (ii)  | Suggest <b>one</b> way this map might help planners in San Francisco to reduce t associated with earthquakes. | he risks<br>[2] |
| (ii)  |   |                 |



| (iii) Explain why earthquakes can affect infrastructure in large cities. | [2] |
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(c) Study the resources below.

### Earthquake Resistant Design

Rolling weights on roof to counteract shock waves.

Identification number visible for helicopters assessing damage after earthquake.

Automatic shutters come down over windows to prevent pedestrians below being showered with glass.

Birdcage interlocking steel frame.

Reinforced lift shafts with tensioned cables.

Panels of marble and glass flexibly anchored to steel superstructure.

Reinforced latticework foundations deep in bedrock.

Open areas where people can assemble if evacuated.

Rubber shock-absorbers between foundations and superstructure.

### **Earthquake Drill in California**



Evaluate different strategies that can be used to protect people in different places that experience powerful earthquakes. [6]

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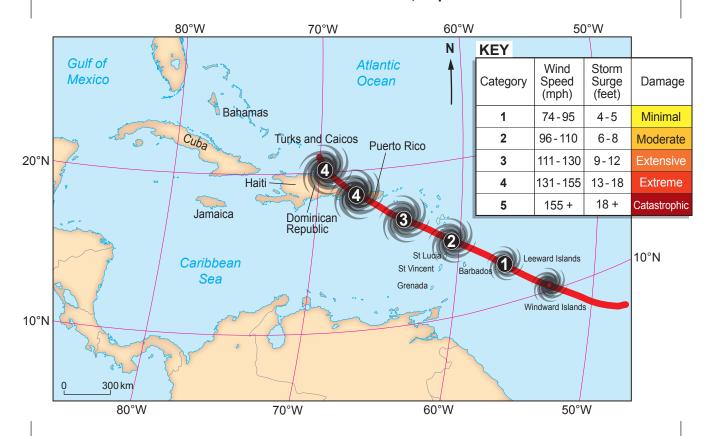
If you have answered Question 3 do not answer Question 4.

### **THEME 4: Coastal Hazards and their Management**

**4.** (a) Study the information box and map below.

Hurricane Maria was a severe storm that affected parts of the Caribbean in September 2017. Hurricanes can cause severe flooding from storm surges, where the sea level is raised at the centre of the storm and when strong winds drive large waves onto the coast.

### Hurricane Maria in the Caribbean, September 2017



| (i) | Give the name of <b>one</b> island affected by Hurricane Maria when it was at |     |
|-----|---|-----|
| .,  | category 4.   | [1] |

(ii) Complete the box below to give the latitude and longitude of Puerto Rico. [2]

|             | Latitude | Longitude |
|-------------|----------|-----------|
| Puerto Rico | 18°      | ° West    |



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| (iii) | Compl       | ete the follo  | wing paragraph   | n choosing yo  | our answers fr   | om the box below. [4]   |
|-------|-------------|----------------|------------------|----------------|------------------|-------------------------|
|       |             | sparsely       | geology          | evenly         | wealth           |                         |
|       |             | soils          | education        | relief         | strength         |                         |
|       |             | health         | densely          | rainfall       | direction        |                         |
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| fact  | tors that i | ncrease the    | risk can includ  | e the low-lyir | ng               | of                      |
| mai   | ny coasta   | ıl areas whic  | h means they     | can be easily  | flooded.         |                         |
| And   | other phy   | sical factor   | is the           |                | and              | frequency of events     |
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|       | Evnlair     | n why rising   |                  | likely to be a | problem in the   | e future for people who |
| (iv)  |             | Small Island   |                  |                |                  | [4]                     |
|       | live in     | Small Island   |                  |                |                  |                         |
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(b) Study the map below.

### Shoreline Management Plan, NW England



FLEETWOOD

| (i)   | Describe the distribution of areas where 'Hold the Line' is the planned opt manage this stretch of coastline. | ion to<br>[3] |
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| (ii)  | Suggest <b>one</b> reason why the planned option is to 'Do Nothing' in the Area <b>A</b> in the north of the map. [2]  |
|-------|--|
| (iii) | The opinions of residents who live at the coast are often different to those of local councils about how the coastline should be managed.  Give <b>one</b> reason to explain this. |
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### (c) Study the photographs below.

### Soft Engineering, UK



### Hard Engineering, UK

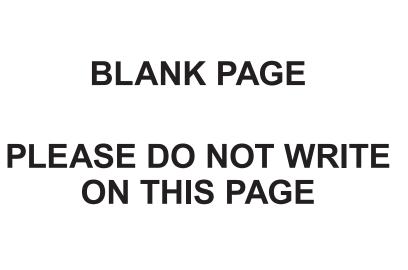


| Evaluate different strategies that can be used to protect coastlines in the future. [ | [6]  |
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| Question<br>number | Additional page, if required.<br>Write the question number(s) in the left-hand margin. | Examine only |
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# Explorer series (1:25 000 scale)

# **EXPLORER MAP SYMBOLS**

## Not necessarily rights of way ROADS AND PATHS



### RAILWAYS

| Narrow gauge<br>tramway or  | light rail system    | Station  | Not shown on maps of Scotland |
|-----------------------------|----------------------|--|-------------------------------|
| Siding                      | punc                 | Embankment   | Not shown                     |
| Station, open to passengers | - London Underground | Cutting crossing cros |                               |
| Single track                | Multiple track       | Soad Road under  | JBLIC RIGHTS OF WAY           |
| 5                           | gange                |  | PUBLIC                        |

| The representation on this map of any other road, track or path | is no evidence of the existence of a right of way. |
|---|--|
| Byway open to<br>all traffic                                    | Road used as a public path                         |
| †<br>†<br>†   | †<br>†<br>†  |
| Footpath  | Bridleway  |
|   |  |

### OTHER PUBLIC ACCESS

- Other routes with public access (not normally shown in urban areas) The exact nature of the rights on these routes and the existence of any restrictions may be checked with the local highway authority. Alignments are based on the best information available.
- Recreational route ( $\diamond$  alternative route) National Trail

Traffic-free cycle route

<del>-</del>

Permissive footpath Footpaths and bridleways along which landowners have permitted public use Permissive bridleway but which are not rights of way. The agreement may be withdrawn. National cycle network route number - traffic free; on road ) DANGER AREA



MANAGED Access permitted within managed controls, for example, local byelaws.

## Firing and test ranges in the area. Danger! Observe warning notices.

BOUNDARIES

### Unitary Authority (UA), London Borough (LB), Metropolitan District (Met Dist) or District (Scotland & Wales are solely Unitary Authorities) · County; England . + National

ARCHAEOLOGICAL AND HISTORICAL INFORMATION VILLA Roman Site of antiquity

The contour interval on Explorer maps are shown at 5m and/or 10m vertical interval, to provide the most detailed heighting available. \* .......... Visible earthwork Castle Non-Roman HEIGHTS AND NATURAL FEATURES  $\approx$  1066 Site of battle (with date) Water

Shingle Sand Mud Survey height;

Some

Loose Sooge rock Boulders

10m

5m

Ground Air

52.

Surface heights are to the nearest metre above mean sea level. Where two heights are shown, the first is the height of the natural ground in the location of the triangulation pillar, and the second (in brackets) to a separate point which is the highest natural summit.

VEGETATION

Limits of vegetation are defined by positioning of symbols duna Scrub Non-coniferous trees Coniferous trees

\*\* \*\*

Bracken, heath or rough grassland Marsh, reeds or saltings

> Orchard Coppice

> > 0000

ACCESS LAND (England and Wales)

Ordnance Survey



Access land portrayed on this map is intended as a guide to land normally available for access on foot, for example access land created under the Countryside and Rights of Way Act 2000, and land managed by National Trust, Forestry Commission, Woodland Trust and Natural Resources Wales. Some restrictions will apply; some land shown as access land may not have open access rights; always refer to local signage.

The depiction of rights of access does not imply or express any warranty as to its accuracy or completeness. Observe local signs and follow the Country side Code. Visit: gov.uk/government/publications/the-country-side-code

Coastal margin

| GENERAL        | GENERAL FEATURES                 |                 |   |
|----------------|----------------------------------|-----------------|---|
|                | Gravel pit                       | < !             | Triangulation pillar                    |
|                | Sand pit                         | ⊸ ×             | Mast                                    |
| Edward .       | Other pit or quarry              | <b>¢</b> ×-     | Wind pump                               |
|                | Landfill site or slag/spoil heap | × X             | Wind turbine                            |
| pvlon pole     |                                  |                 | Building; important building            |
|                | Electricity transmission line    | ₩               | Glasshouse                              |
| X              | Solar farm                       | •               | Youth hostel                            |
| Slopes         | Slopes                           |                 | Bunkhouse, camping barn or other hostel |
| +              | Place of worship                 | •               | Bus or coach station                    |
| Current or for | of worship;                      | Ř               | Lighthouse; disused lighthouse          |
| ■ ••           | with spire, minaret or dome      | $\triangleleft$ | Beacon                                  |

## See website for full list **ABBREVIATIONS**

| Police station | Reservoir      | School    | Town hall           | Normal tidal limit | Well; spring      |
|----------------|----------------|-----------|---------------------|--------------------|-------------------|
| Pol Sta        | Resr           | Sch       | 픋                   | M                  | W; Spr            |
| Library        | Market         | Memorial  | Milepost; Milestone | Monument           | Post office       |
| Liby           | Mkt            | Meml      | MP; MS              | Mon                | 9                 |
| Boundary post  | Boundary stone | Clubhouse | Fire Station        | Footbridge         | Industrial Estate |
| В              | BS             | ᆼ         | F Sta               | 8                  | Ind Est           |

## TOURIST AND LEISURE INFORMATION

| _                                 | _           | _          |
|-----------------------------------|-------------|------------|
| 包                                 | <b>5</b> \$ | +          |
| Art gallery (notable / important) | Boat hire   | Doot tripo |
| 4-                                |             |            |

National Trust Boat trips

Other tourist feature Nature reserve Building of historic interest

Park and ride, all year Parking

Cadw

Park and ride, seasonal P&R Camping and caravan site Caravan site Camp site

•

Civil Parish (CP); England or Community (C); Wales National Park boundary

Phone; public, emergency, roadside assistance Cathedral or Abbey Castle or fort

Preserved railway Picnic site

Public house(s)

Country park

Craft centre

Cycle hire Cycle trail

PC Public toilets

 $\bigotimes$ 

Recreation, leisure or sports centre Slipway

Theme or pleasure park Visitor centre Viewpoint Forestry Commission visitor centre

**English Heritage** 

#

Outcrop

Vertical face/cliff

Contours

Fishing

Water activities (board) Water activities Walks or trails

Garden or arboretum

Golf course or links

Historic Scotland

Heritage centre

Water activities (powered) Water activities (paddle) Information centre, seasonal

Information centre

Horse riding

Mountain bike trail

Watersports centre (multi-activity)

World Heritage site / area

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Unit 1 - Changing Physical and Human Landscapes **GEOGRAPHY** 

TUESDAY, 21 MAY 2019 – AFTERNOON

RESOURCE FOLDER

This folder is for use with questions in Unit 1. This folder need not be handed in with your answer booklet.

MK\*(S19-3110U10-1A) © WJEC CBAC Ltd.

(3110U10-1A)

Ordnance Survey Explorer sheet 254 (1:25000), Lleyn Peninsula East OS Map extract of an area of coastline around PwIlheli, North Wales

