



Geography

GCSE | WJEC | 3110



2016 specification
first exams in 2016

WJEC GCSE Geography Keyword Activities

Theme 3: Tectonic Landscapes and Hazards

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Contents

Thank You for Choosing ZigZag Education.....	ii
Teacher Feedback Opportunity	iii
Terms and Conditions of Use.....	iv
Teacher’s Introduction.....	1
Topic 1: Plate Tectonics and Resulting Activity	2
Crossword	2
Fill in the Keyword.....	4
Match Up.....	5
Dominoes.....	7
Bingo	10
Topic 2: Processes which Create Volcanic Landscapes	15
Crossword	15
Fill in the Keyword.....	17
Match Up.....	18
Dominoes.....	19
Bingo	22
Topic 3: Physical Factors of Tectonic Hazards	27
Crossword	27
Fill in the Keyword.....	29
Match Up.....	30
Dominoes.....	33
Bingo	38
Topic 4: Social and Economic Factors of Tectonic Hazards.....	43
Crossword	43
Fill in the Keyword.....	45
Match Up.....	46
Dominoes.....	48
Bingo	51
Topic 5: Ways of Reducing Tectonic Hazards	56
Crossword	56
Fill in the Keyword.....	58
Match Up.....	59
Dominoes.....	62
Bingo	66
Answers	71
Crosswords	71
Fill in the Keyword / Match Up / Dominoes.....	75
Appendices	80
Personal Revision Glossary.....	80
Dominoes / Revision Card Template	85
Jumbo Crossword.....	A3 pages

Teacher's Introduction

This resource has been produced to support the teaching of the **2016 WJEC specification for GCSE Geography: Core Theme 3: Tectonic Landscapes and Hazards**.

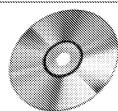
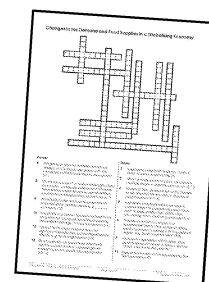
To help with the delivery of the specification all of our keyword activities are organised into topics linked to the key questions presented within each theme. A variety of engaging activities is included to help consolidate your students' understanding of key terminology and concepts. The range of activities enables you to use this resource **before, during** and **after** the teaching of each topic, helping your students to **prepare, recap** and **revise** each module.

The learning content for Tectonic Landscapes and Hazards is covered by a total of five sets of keywords and matching descriptions. For each set, there are five different keyword activities designed to give you a range of different options for classroom, homework and revision. The answers for all the keywords can be found at the back of the resource, along with the crossword solutions.

The activities are as follows:

① Crosswords

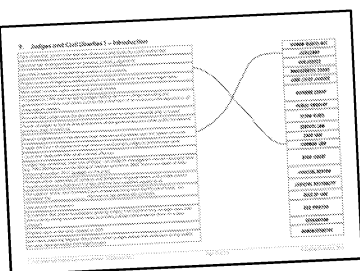
These traditional keyword activities are equally effective as lesson or homework activities – and are also an excellent way to ease students into their revision programme. There is also an A3 'jumbo' crossword with terms from across the whole unit. This could be used as class revision challenge at the end of the unit, perhaps dividing students into teams to see how far they can get.



In addition to the photocopiable worksheets, the crosswords are also provided in interactive format on the accompanying CD-ROM. These are web-based (HTML) and will run straight from your Internet browser.

② Fill in the Keyword

Nothing fancy – students simply write the keyword which is being described, without any other help. Because this activity tests the students' own knowledge, they are best used as a homework activity at the end of each topic or during revision. This then acts as a check that they have grasped the key terminology for each topic. Alternatively, they could be given to students at the beginning of the topic, to see what they already know.



③ Match Up

Students match descriptions to their keyword by drawing lines between them. Because there are similar descriptions and keywords, students are likely to make the odd mistake while completing the activity, so it is recommended that they use a pencil to start with! By eliminating the keywords that they are familiar with, students can then think about and learn the ones that they are less confident with.

④ Dominoes

This is another match up activity, but this one is designed to be used in a more active way to engage students. It is recommended that students work in pairs or small groups. Half of each card contains a keyword, and the other contains a description. To complete the activity, students must align all the cards in the correct order. There is a 'Start' and a 'Finish', meaning that if any cards are left outside of the chain, then students have gone wrong somewhere. The CD contains an editable Word version of the blank dominoes template, so you can make your own.

⑤ Bingo

Each student is given a different bingo card containing a selection of words from the set. The teacher reads the definitions and the student must match the definition to the words on their card to complete rows, columns, and the full bingo card.

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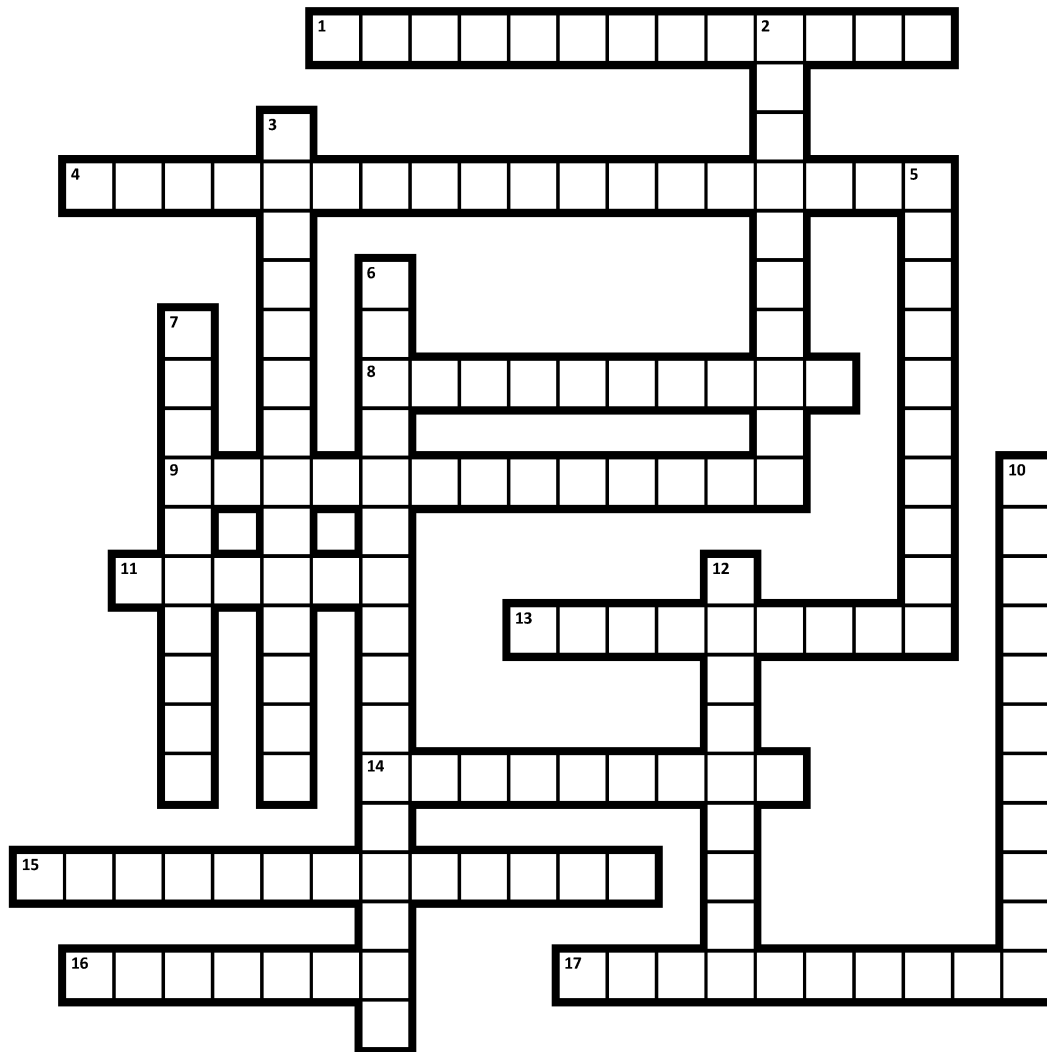
A Roberts, April 2016

Selected Activities and Completed Glossary Page

This sample shows one example of several activities.
The whole resource contains approximately 40 activities –
6 or 7 activities for each of the 5 topics.

The resource covers 100 key terms.

Topic 1: Plate Tectonics and Resulting Activity: Crossword



Across

- 1 The margin between two plate (5,8)
- 4 Circulatory movement in the asthenosphere generated from the heat created from the breakdown of radioactive isotopes within the mantle. This causes hot rocks to rise and cold rocks to descend. (10,8)
- 8 Land destroyed as one plate is subducted below the other. _____ plate boundary (10)
- 9 Segment of the lithosphere which rests on the underlying asthenosphere (8,5)
- 11 Pacific Ocean island and one of the United States, created by a hotspot (6)
- 13 Margin responsible for the creation of fold mountains where two continental plates meet. _____ plate boundary (9)
- 14 Plates move past each other. Land neither created nor destroyed. _____ plate boundary (9)
- 15 The migration of sections of the Earth's crust due to convection currents (5,8)
- 16 Point on the Earth's surface which marks a rising plume of hot magma (7)

Down

- 2 When two plates move apart (10)
- 3 Deep depressions found along the seaward edge of destructive plate margins (8,6)
- 5 Destruction of plates, often when dense oceanic crust is forced downwards and melts (10)
- 6 Processes and hazards resulting in the movement of the Earth's plates (8,8)
- 7 The physical manifestation of a fault line (4,6)
- 10 Columnar upwelling of magma within the Earth (6,5)
- 12 Two plates separate, creating new lithosphere. _____ plate boundary (9)

Topic 1: Plate Tectonics and Resulting Activity: Fill in the Keyword

Ground shaking caused by the sudden release of pressure between two tectonic plates	
Segment of the lithosphere which rests on the underlying asthenosphere	
The margin between two plates	
Margin where two plates move apart, creating mid-ocean ridges in oceanic areas, and rift valleys in continental areas	
Margin where two plates collide	
Plate boundary where the direction of motion of the two plates is parallel, or nearly parallel. The plates normally move in opposite directions; however, in some cases the plates may move in the same direction at different speeds, e.g. the San Andreas fault, USA.	
Plate boundary where two continental plates meet. Neither will be subducted due to similar densities and buoyancies resulting in their sediments and edges being pushed upwards to form fold mountains, e.g. the Himalayas.	
Deep depressions found along the seaward edge of destructive plate margins	
Processes and hazards resulting in the movement of the Earth's plates	
The migration of sections of the Earth's crust due to convection currents	
Circulatory movement in the asthenosphere generated from the heat created from the breakdown of radioactive isotopes within the mantle. This causes hot rocks to rise and cold rocks to descend.	
Process in which the denser of two converging plates is forced underneath the lighter one, travelling deep into the mantle	
When two plates move apart	
The physical manifestation of a fault line	
Point on the surface which marks a rising plume of hot magma from deep in the Earth's mantle. When the magma breaks through to the surface a volcano is formed, thus creating a new island, e.g. Hawaii island chain.	
Pacific Ocean island and one of the United States, created by a hotspot	
Upwelling of magma from the core-mantle boundary. This phenomenon is capable of creating an area of volcanic activity in the centre of a lithospheric plate, e.g. hotspots.	

Topic 1: Plate Tectonics and Resulting Activity: Match Up

Circulatory movement in the asthenosphere generated from the heat created from the breakdown of radioactive isotopes within the mantle. This causes hot rocks to rise and cold rocks to descend.	COLLISION PLATE BOUNDARY
Deep depressions found along the seaward edge of destructive plate margins	CONSERVATIVE
Ground shaking caused by the sudden release of pressure between two tectonic plates	CONSTRUCTIVE
Margin where two plates collide	CONVECTION CURRENTS
Margin where two plates move apart, creating mid-ocean ridges in oceanic areas, and rift valleys in continental areas	DESTRUCTIVE PLATE BOUNDARY
Pacific Ocean island and one of the United States, created by a hotspot	DIVERGENCE
Plate boundary where the direction of motion of the two plates is parallel, or nearly parallel. The plates normally move in opposite directions; however, in some cases the plates may move in the same direction at different speeds, e.g. the San Andreas fault, USA.	EARTHQUAKE
Plate boundary where two continental plates meet. Neither will be subducted due to similar densities and buoyancies resulting in their sediments and edges being pushed upwards to form fold mountains, e.g. the Himalayas.	HAWAII
Point on the surface which marks a rising plume of hot magma from deep in the Earth's mantle. When the magma breaks through to the surface a volcano is formed, thus creating a new island, e.g. Hawaii island chain.	HOTSPOT
Process in which the denser of two converging plates is forced underneath the lighter one, travelling deep into the mantle	MANTLE PLUME
Processes and hazards resulting in the movement of the Earth's plates	OCEAN TRENCH
Segment of the lithosphere which rests on the underlying asthenosphere	PLATE BOUNDARY
The margin between two plates	PLATE MOVEMENT
The migration of sections of the Earth's crust due to convection currents	RIFT VALLEY
The physical manifestation of a fault line	SUBDUCTION
Upwelling of magma from the core-mantle boundary. This phenomenon is capable of creating an area of volcanic activity in the centre of a lithospheric plate, e.g. hotspots.	TECTONIC ACTIVITY

Topic 1: Plate Tectonics and Resulting Activity: Dominoes

START

Ground shaking caused by the sudden release of pressure between two tectonic plates

Earthquake

Segment of the lithosphere which rests on the underlying asthenosphere

Tectonic Plate

The margin between two plates

Plate Boundary

Margin where two plates move apart, creating mid-ocean ridges in oceanic areas, and rift valleys in continental areas

Constructive Plate Boundary

Margin where two plates collide

Destructive Plate Boundary

Plate boundary where the direction of motion of the two plates is parallel, or nearly parallel. The plates normally move in opposite directions; however, in some cases the plates may move in the same direction at different speeds, e.g. the San Andreas fault, USA.

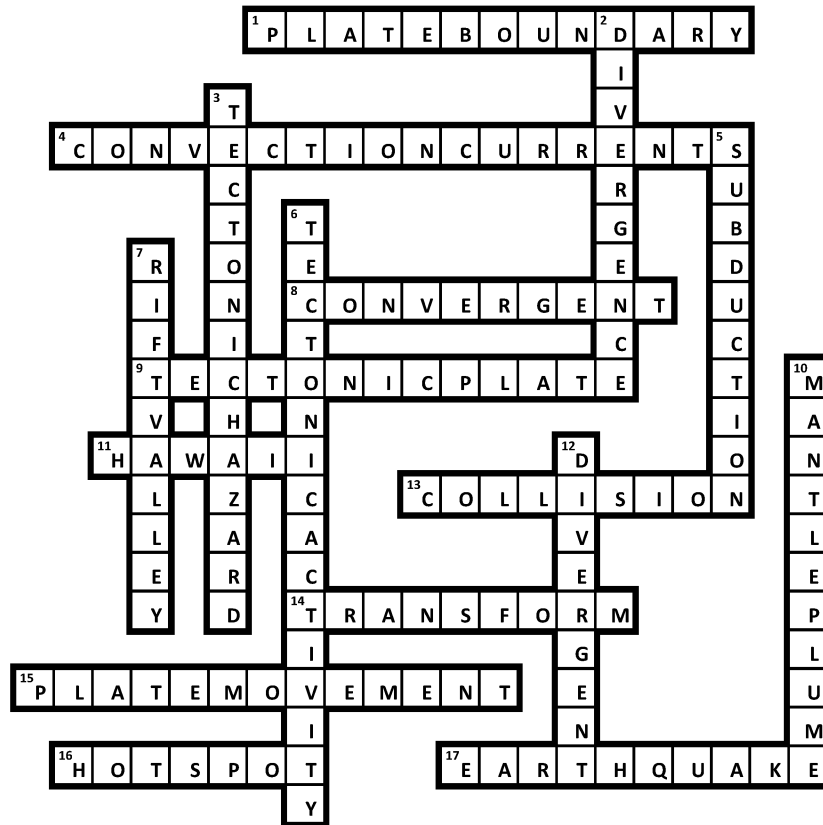
Topic 1: Plate Tectonics and Resulting Activity: Bingo

Bingo			
Earthquake	Tectonic Plate	Plate Boundary	<i>Other Keywords</i> 1. 2. 3. 4. 5. 6. 7. 8.
Constructive Plate Boundary	Destructive Plate Boundary	Conservative Plate Boundary	
Collision Plate Boundary	Ocean Trench	Tectonic Activity	

Bingo			
Hotspot	Rift Valley	Divergence	<i>Other Keywords</i> 1. 2. 3. 4. 5. 6. 7. 8.
Subduction	Convection Currents	Plate Movement	
Tectonic Plate	Mantle Plume	Hawaii	

Crosswords

Topic 1: Plate Tectonics and Resulting Activity



Topic 2: Processes which Create Volcanic Landscapes

