

NAME: _____

YEAR 9 ASSESSMENT

DYNAMIC EARTH RESEARCH TASK

SCIENTIFIC ARTICLE/BLOG

Task: Students are to create a scientific article/blog about a **tectonic event**. The target audience is the **general public**. This publication needs to follow similar scientific article/blog conventions by having an appropriate eye-catching title and a similar format to those forms of publications.

Students are to perform relevant research about a tectonic event and use this information to write an article that includes the following:

- Includes a catchy title
- Clearly describes details about the tectonic event; **WHEN**, **WHERE**, and **WHAT** was the impact on humans and the environment
- Clearly describe **HOW** the tectonic event happened (volcano formation, plate movement, earthquake generation)
- Clearly describes and explains how technology was used to predict and monitor the tectonic event
- Quotes from bystanders or scientists (can be made up)
- Relevant images are included to engage the reader and further explore your chosen tectonic event

Assessment Criteria:

Students will be assessed on their ability to:

- Use correct scientific language and terminology
- Engage the reader through informative written text and images
- Information is presented in a clear and concise format

Please note:

- *A more detailed description about necessary content will be included in the **marking criteria (below)**.*
- *You will be provided time in class to begin your research, however, some work will be required at home.*
- *As this is a research task, you will need to include a **reference list**. You need at least **five sources** of information, and all sources need to be referenced appropriately. We recommend using the school's referencing guide or referencing websites such as citethisforme.com.*

Suggested tectonic events include:

<i>Mt St Helens (1980) – volcano</i>	<i>Haiti (2010) – earthquake</i>
<i>Eyjafjallajökull, Iceland (2010) – volcano</i>	<i>Indonesia (2004) – earthquake</i>
<i>Anak Krakatoa, Indonesia (2018) – volcano</i>	<i>Japan (2011) – earthquake</i>
<i>Puyehue-Cordón Caulle, Chile (2011) – volcano</i>	<i>Pakistan (2005) – earthquake</i>

MARKING CRITERIA	MARKS
Relevant, eye-catching title	0 – 1
Describes the location of the event	0 – 1 – 2
Identifies the date of the event	0 – 1
Identifies the plates involved	0 – 1
Explains how the volcano/earthquake formed due to plate movement	0 – 1 – 2 – 3
Identifies the extent of damage caused by the event, the number of lives lost and the environmental impact	0 – 1 – 2 – 3
Identifies TWO technologies that could have/ did inform people about the tectonic event	0 – 1
Explains how each technology works	0 – 1 – 2 – 3 – 4 – 5 – 6
Includes at least THREE relevant images and refers to them in their text	0 – 1 – 2
Includes at least FIVE sources of information	0 – 1
Appropriately references at least five sources	0 – 1
Uses correct text type and language appropriate for audience , including descriptive scientific language to explain the tectonic event	0 – 1 – 2 – 3
Writing is cohesive , showing clear cause and effect (uses the grammatical features from the scaffold)	0 – 1 – 2
TOTAL	/27

LIMITED	BASIC	SOUND	HIGH	OUTSTANDING
0 – 6	7 – 13	14 – 20	21 – 24	25 – 27

FEEDBACK:

Use this scaffold to guide your writing

Structure	Grammatical features
Headline The headline should be catchy and to the point -Relevant to the event	<ul style="list-style-type: none"> • past tense and third person • conjunctions to show time sequences (<i>before, then, after</i>) • scientific terms and noun groups for factual information • summarising nouns to condense information and create cohesion (<i>this experiment, these findings, this discovery</i>) • Use adverbs and conjunctions to show cause (<i>so, as a result, because, therefore, consequently</i>) • Use of modality to convey attitude or importance (<i>there is little doubt, certainly, significant</i>)
Introduction Summarise what happened. Grab the reader's attention <ul style="list-style-type: none"> - When, where and who - An overview of the extent of the damage to humans and the environment - How often or when did an event like this last happen 	
Main story Tell the reader exactly what happened. Include scientific facts about tectonic plate movement, the types of technology used, quotes/eyewitness accounts <ul style="list-style-type: none"> - How the tectonic event happened - Identify volcano formation, plate movement, earthquake generation - Describe what technology was used - Quotes from eyewitness accounts (can be made up) Extension- List and describe details about new and developing technologies	
Conclusion Explain what we expect to happen next <ul style="list-style-type: none"> -How they will predict future events using technology -How they will prepare for future tectonic events -How will they rebuild and move on 	