

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:

Mt St Helens (1980) – volcano

Haiti (2010) – earthquake

Eyjafjallajökull, Iceland (2010) – volcano

Indonesia (2004) – earthquake

Anak Krakatoa, Indonesia (2018) – volcano

Japan (2011) – earthquake

Puyehue-Cordón Caulle, Chile (2011) – volcano

Pakistan (2005) – earthquake

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
<p>Headline</p> <p>The headline should be catchy and to the point</p> <p>-Relevant to the event</p>	<ul style="list-style-type: none"> • past tense and third person
<p>Introduction</p> <p>Summarise what happened. Grab the reader's attention</p> <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 	<ul style="list-style-type: none"> • conjunctions to show time sequences (<i>before, then, after</i>) • scientific terms and noun groups for factual information
<p>Main story</p> <p>Tell the reader exactly what happened. Include scientific facts about tectonic plate movement, the types of technology used, quotes/eyewitness accounts</p> <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) <p>Extension- List and describe details about new and developing technologies</p>	<ul style="list-style-type: none"> • 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>)
<p>Conclusion</p> <p>Explain what we expect to happen next</p> <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 	