



Date: \_\_\_\_\_ Name: \_\_\_\_\_ Number: \_\_\_\_\_

## MARK SCHEME – Diamond Band 17 – Fragile Earth

Page 4: ‘... *like rafts on a syrupy sea*,...’

Explain why the author has chosen to include this: (LANG)

- ☒ Tick one
- ☐ It accurately describes the conditions of the mantle.
- ☒ It helps to build a picture in the reader’s mind about what the mantle is like.
- ☐ To build excitement for future parts of the text.
- ☐ It is the only way to describe it.

Page 11: What additional information can be learnt by looking at the image and caption of the volcanologist on this page? (STRUC)

*Accept a wide range of answers that are drawn from the image and or caption. E.g.: They take lava samples during eruptions. They work very close to active volcanoes. They wear special clothing that protects them from the high temperatures.*

Page 11: Look at the paragraph beginning: “*Scientists place volcanoes...*”.

Which word suggests that there is still a chance of extinct volcanoes erupting? (WORDS)

*...are no longer likely to erupt. Use of word likely suggests there remains a chance.*

Pages 14 – 15: Examine the text on this page, then decide whether the statements below are true or false. (KNOWL)

	True	False
Sea temperatures must be at least 23°C for a tropical storm to start.		✓
The eye of the storm is generally very calm.	✓	
People on the coast suffer more damage during tropical storms than those who live inland.	✓	
Hurricanes will always last for 18 hours.		✓
Tornadoes are larger than hurricanes.		✓
Hurricanes need the ocean to form.	✓	
Tornadoes have a higher wind speed than hurricanes.	✓	
It is safe to play outside during either a hurricane or a tornado.		✓

Page 23: David says, “*Flooding is always bad.*” Do you agree with David? Explain why or why not below. (INF)

Accept answers that point to flooding being relatively harmless if the land is covered by natural vegetation and that flooding helps to fertilise the soil.

Page 30: Look at the paragraph beginning: “*The world’s human population is growing fast...*”. What does the author’s use of the word ‘gobble’ in this paragraph tell you about their viewpoint on human activities? (INF)

Accept answers that indicate the author not being in support as gobble suggests greedily consuming.

Page 30: Look at the paragraph beginning: “*All over the world...*” Which words give us a clue about the author’s view of rainforest destruction? (LANG)

Accept answers that refer to one of the following:  
Rainforests are very important.

...which depend on them for life.  
The forests are vital...

Pages 36 – 37: Explain the concern described by the captions on these pages, below. (KNOWL)

Accept answers that point to ‘food production for the town has greatly increased but how long will the water last?’ showing that the major concern is water usage, specifically how long water supplies will last.

Pages 40 – 41: Jabrad lives in Bangladesh. Bangladesh is a country located next to India. Most of Bangladesh is only 10 metres above sea level. Describe a major effect of global warming that Jabrad might experience. (KNOWL)

Accept answers that recognise that Bangladesh is at risk of flooding as a result of sea level rise. Do not accept general references to an increase in temperature as the question states ‘a major effect’. Also, do not accept any references to the poles, as information in the question tells pupils the location of Bangladesh.

Glossary: Choose 2 technical words from the glossary and use them in your own sentences below. (WORDS)

Various answers possible. Check that words used have come from the glossary and are not copied examples.