**A perfect planet – Episode 3: Weather**

**October in Zambia’s forest**

1. For how many weeks do the fruit bats stay in the Zambian forest?
2. Name one benefit of the bats living in the Zambian forest
3. What weather condition does Africa’s largest wildlife migration depend on?

**Flooding in the Amazon rainforest**

1. Every second, how many tonnes of water evaporate from our oceans to form clouds?
2. How many metres of rain  does the Amazon rainforest get each year?
3. Which insects have adapted to the Amazons weather conditions by forming a ‘living raft’?

7. By how much has the average temperature of the Earth varied over the past 10,000 years?

8. What word is used to describe the climate?

**October in the Amazon**

9. What does the change in weather in October do to the Amazon?

10. What proportion of the worlds giant river turtles rely on the October weather pattern in the Amazon?

11. How often do early floods now occur the Amazon?

12. How do the early floods affect the giant river turtles?

**South Africa’s desert**

13. What proportion of the land receives less than 25cm of rain a year?

14. How much rain does the South African desert receive each year?

15. Where do coastal deserts get their moisture from at night?

**Winter in Mongolia’s Gobi desert**

16. What temperature does it reach in winter in the Gobi desert?

17. What happens to any water in the Gobi desert in winter?

18. What form of moisture is blown into the Gobi desert by wind? Where does it come from?

**Monsoon in Christmas Island**

19. Tropical storms can be called 3 different names. Typhoons is one of the names, what are the other two?

20. What are the seasonal winds that blow at the same time each year called?

21. What do monsoons bring to the land from the ocean?

22. Which ocean is Christmas Island located in?

23. What month do the first monsoon storms reach Christmas Island?

24. Which animal relies on the monsoon rain? Why?

**The Zambezi river**

25. How many countries does the Zambezi river flow across?

26. In recent years, by what percentage has the volume of water dropped by in Victoria falls?

27. Name one major tributary of the Zambezi

**Changes in weather**

28. Name 2 changes which are happening to the world’s weather.

29i. True or false: Wildfires are being less frequent

29ii. True or false: Droughts are becoming more intense

29iii.. True or false: storms are becoming more gentle

30. Why are these recent weather changes occurring?

**Answers**

1. 12 weeks every year
2. They spread fruit seeds/help to regenerate the forest
3. The rain
4. Over 13 million tonnes
5. 3 metres
6. Fire ants
7. No more than 1 degree Celsius
8. Stable
9. Changes the landscape/creates a beach
10. ¼ of the worlds population of giant river turtles (50,000)
11. Every 4 years
12. Young turtles drown in their nests
13. 1/3 of the land
14. 7cm of rain
15. The ocean
16. -40 degrees Celsius
17. It freezes
18. Snow from Siberia
19. Hurricanes and tropical cyclones
20. Monsoons
21. Water
22. Indian Ocean
23. November
24. Red crabs, to release their eggs
25. 6
26. 50%
27. Luangwa river (in Zambia)
28. It’s getting more extreme and less reliable
29. i) false, they are becoming more frequent

ii) true, they are becoming more intense

iii) false, they are becoming more ferocious

1. Rise in global temperature by 1 degree Celsius