

# CLIMATE & ATMOSPHERE

1. How many layers are there in the **atmosphere**?
2. Can you list all the layers in the atmosphere?
3. Which layer in the atmosphere is **closest** to Earth?
4. Which layer in the atmosphere is the highest from Earth?
5. Which layer contains the **Ozone layer**?
6. What are the two most abundant/important **gases** in the atmosphere?
7. What is **climatology**?
8. What is the difference between weather and climate?
9. True or False – **Weather** refers to the state of the atmosphere at any specific time
10. True or False - **Climate** refers to the typical state of the atmosphere over a long period of time
11. What **percentage** of the gases in the atmosphere can you find in the **Troposphere**?
12. What does the **Ozone layer** do?
13. **Climatology** is the study of what?
14. The **Ionosphere** is another word for what?
15. Which is the **warmest** layer of the atmosphere?

16. Which is the **coldest** layer of the atmosphere?
17. What three things influence **temperature**?
18. What are the **three** factors that influence **precipitation**?
19. Why is the **Hot Zone** hot?
20. What is the **hottest** place in Spain?
21. What is the **wettest** place in Spain?
22. What is the **coldest** place in Spain?
23. What **climate zones** are there in **Spain**?
24. What is the **greenhouse effect**?
25. Which **two** elements in the atmosphere **trap** and **reflect** long wave radiation back onto the Earth's surface?
26. **Latitude, Altitude** and the **Distance from the sea** are three factors that influence what?
27. What are the **three factors** that influence precipitation?
28. What are the three types of **precipitation**?
29. A **trade wind** is what type of wind?
30. **The Monsoon** is what type of wind?
31. **Tramuntana, Sirocco** and **Mistral** are all what type of winds?
32. **Stable** weather is normally associated with what type of pressure?

33. **Unstable** weather is normally associated with what type of pressure?
34. True or false: **Atmospheric pressure** is normally higher in **mountainous areas**
35. True or false: cold air is **lighter than** hot air?
36. What happens to **warm air** when it **rises**?
37. Why is high pressure associated with stable, warmer weather?
38. Why is high pressure near the ground?
39. What happens when a **cold front** of air meets a **warm front** of air?
40. True or false: Hurricanes, typhoons & cyclones are all **tropical cyclones**
41. What is another name for a **cyclone**?
42. What is the name for a cyclone over the North Atlantic?
43. What is the name for a cyclone over the Northwest Pacific?
44. Over which **ocean** do cyclones occur?
45. Write the names of the 3 different types of **rain**?
46. What is the **name** of the **process** by which radiation from the Earth's atmosphere warms the planet's surface to a temperature above what it would be without its atmosphere
47. What is a **prevailing** wind?
48. What is a **seasonal** wind?
49. What is a **local** wind?
50. **Latitude, Altitude** and **Humidity** are three factors that influence what?