

Teacher Reference Sheet A.1.1
Weather and Climate Facts and Fictions

1. Why is the sky blue?
2. What makes the wind?
3. What are clouds?
4. What makes rain?
5. Why is it hotter in summer than in winter?
6. Does air have weight?
7. What makes a rainbow?
8. What's the most dangerous kind of extreme weather event?
9. Does the rain that falls to Earth stay in the rivers and oceans?
10. Does air move from high to low pressure, or from low to high pressure?
11. Why do we see lightning before we hear the thunder?
12. What makes lightning?
13. Can lightning strike twice in the same place?
14. Can a groundhog predict the weather?
15. Can the shape and type of clouds predict tomorrow's weather?
16. If land gets hotter quicker than water, why are the oceans more important in driving Earth's weather?
17. Does water flowing down a bathtub drain spin in different directions in the northern and southern hemispheres?
18. Do hurricanes spin in different directions in the northern and southern hemispheres?
19. What causes a tornado?
20. Do Celsius and Fahrenheit scales measure the same thing?
21. Does America have the wildest weather on Earth?
22. Does Earth experience a "greenhouse effect"?
23. Is Earth experiencing global warming?
24. Which is bigger, a thunderstorm or a hurricane?
25. Have there always been El Niño events, or are they a recent phenomenon?