

GCS Grade 7 Science Unit B Study Guide Weather

This is a guide as to what will be on the test. If you use this and study you should do well. There will be a few questions that review the energy unit as well.

Energy and Water cycle

1. Know the definition of convection currents.
2. What is the driving force of the water cycle?
3. How does heat energy move? (From _____ to _____)
4. What is the water cycle?
5. Name at least three important processes in the water cycle.

Wind

6. Name all of the global winds and the approximate latitudes they are in (or approximately their location)
7. Which global wind contributes to majority of the weather in the US?
8. What is wind?
9. What is the Coriolis Effect?
10. Name the local winds.
11. Which direction does sea breeze come from?
12. Which local wind happens during the day?

Air masses and Fronts

12. What is an air mass?
13. Do air masses move?
14. What is the source region of an air mass?
15. What is a front?
16. List the four types of fronts we discussed.
17. Draw the symbols for all four fronts
18. Compare and Contrast the weather at each front.

Severe Weather

19. Which type of severe weather is the largest?
20. Which moves the slowest?
21. Which is the most unpredictable?
22. What is "Tornado Alley"?
23. Name the four types of clouds and the weather that they bring.

Weather Forecasting

24. Which layer of the atmosphere does our weather occur in?
25. What does the Coriolis Effect have to do with winds and hurricanes?
26. On a weather map, what do H and L stand for?
27. Will fronts occur near an area of High pressure or an area of low pressure?
28. Which way do winds move: H to L or L to H? Why?
29. What instrument do we use to measure pressure? What are isobars?
30. Close isobars = _____ wind, far apart isobars = _____ wind
31. What happens to Humidity as you decrease/increase temperature? What is relative humidity?
32. What are isotherms?
33. What is the dew point?