

Weather Watch Review

1. Which statement most accurately describes the movement of air in indoor and outdoor environments:
 - a. Hot air rises, Cool air falls
 - b. Hot air rises, Warm air falls
 - c. Cool air rises, Hot air falls
 - d. Cool air rises, Cold air falls
2. Where in our classroom would you be most likely to find the coolest temperature:
 - a. The ceiling
 - b. The middle of a wall
 - c. The floor
 - d. The window
3. Where in our classroom would you be most likely to find the warmest temperature:
 - a. The ceiling
 - b. The middle of a wall
 - c. The floor
 - d. The window
4. You observe thin, wispy, white clouds high in the sky. These clouds are most likely:
 - a. Stratus
 - b. Cirrus
 - c. Cumulus
 - d. Nimbus
5. You observe grayish clouds that cover the entire sky. These clouds are most likely:
 - a. Stratus
 - b. Cirrus
 - c. Cumulus
 - d. Nimbus
6. You observe white, puffy clouds that look like cotton balls. These clouds are most likely:
 - a. Stratus
 - b. Cirrus
 - c. Cumulus
 - d. Nimbus
7. You observe nimbus cloud formations low in the sky. Which statement most accurately predicts the associated weather pattern:
 - a. Rain or storms
 - b. Sunny, summer day
 - c. A change in the weather within 24-hours
 - d. A thunderstorm

8. We filled a can with cool water. Then we added ice cubes to the can. We observed small droplets of water forming on the can. Which statement most accurately describes why these droplets form:
- Water vapour from the inside of the can forms on the cool surface of the can
 - Water vapour from the surrounding air forms on the cool surface of the can
 - Water droplets form outside the can as the ice melts inside the can
 - Water droplets from inside the can leak through as the ice melts inside the can
9. Why does the phenomenon from question 8 occur?
- Ice melts into liquid water when it is heated to the dew point
 - Water vapour melts into liquid water when it is heated to the dew point
 - Ice condenses into liquid water when it is cooled to the dew point
 - Water vapour condenses into liquid water when it is cooled to the dew point
10. Saturation can be described as:
- When water droplets in a cloud become too heavy and fall to earth due to gravity
 - When water vapour in the air condenses into water droplets, forming clouds
 - When water droplets fall to earth due to gravity, in the form of rain, snow, sleet, or hail
 - When liquid water heated by the sun becomes water vapour, rising with hot air
11. At what temperature does liquid water freeze?
- 100 °C
 - 10 °C
 - 0 °C
 - 10 °C
12. Which device could be used to measure wind speed?
- a thermometer
 - an anemometer
 - a barometer
 - a weather vane
13. Which device could be used to measure wind direction?
- a thermometer
 - an anemometer
 - a barometer
 - a weather vane
14. At which time of day would you be most likely to experience the highest temperature?
- 6:00 am
 - 2:00 pm
 - 12:00 pm
 - 6:00 pm
15. At which time of day would you be most likely to experience the lowest temperature?
- 6:00 am
 - 2:00 pm
 - 12:00 pm
 - 6:00 pm

16. Which statement most accurately describes how sand absorbs heat:
- Sand heats slowly and loses heat slowly
 - Sand heats slowly and loses heat quickly
 - Sand heats quickly and loses heat quickly
 - Sand heats quickly and loses heat quickly
17. Which statement most accurately describes how water absorbs heat:
- Water heats slowly and loses heat slowly
 - Water heats slowly and loses heat quickly
 - Water heats quickly and loses heat quickly
 - Sand heats quickly and loses heat quickly
18. Which statement most accurately describes a sea breeze?
- During the day, cool air above the sea moves towards the warm air above the land
 - During the day, warm air above the sea moves towards the cool air above the land
 - During the night, cool air above the sea moves towards the warm air above the land
 - During the night, warm air above the sea moves towards the cool air above the land
19. Which statement most accurately describes a land breeze?
- During the day, cool air above the land moves towards the warm air above the sea
 - During the day, warm air above the land moves towards the cool air above the sea
 - During the night, cool air above the land moves towards the warm air above the sea
 - During the night, warm air above the land moves towards the cool air above the sea

Study Tips:

- These questions are only a general outline of our Weather Watch unit. It is important that you can explain WHY these answers are correct. Look through your notes in your Science duotang and the weblinks on our blog to help you to study.
- Create a distraction free place that you can study. It should be quiet, and you should have easy access to all the supplies you need (Eg. duotang, computer, pencil, paper, etc.)
- You should study for 15 minutes and then get up and take a 5-10 minute activity break. This will allow your brain to accurately store the information in your schema while keeping you awake and alert. TV, video games, computer, etc. are NOT activity breaks!
- Make sure you are not hungry (have a snack if you need it) or thirsty (drink lots of water). Get lots of sleep after studying. Your schema "files" information at night.
- Remember: Talk it Out, Work it Out, Add Colour, Play "Beat the Buzzer," or Draw it Out