Understanding Key Concept

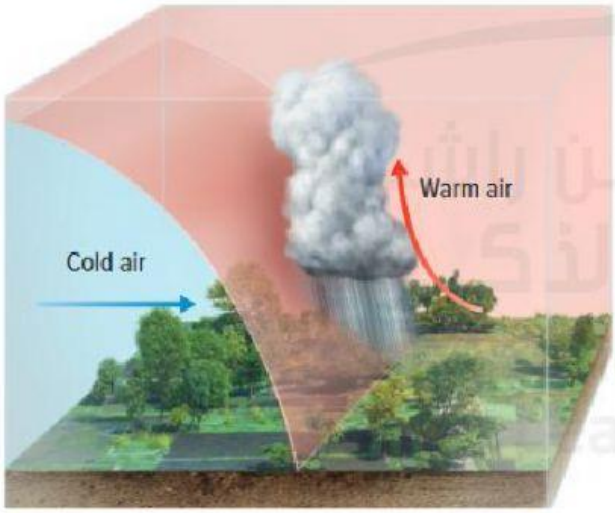
1. Clouds form when water changes from
   - **A.** gas to liquid.
   - **B.** liquid to gas.
   - **C.** solid to gas.
   - **D.** solid to liquid.

2. Which type of precipitation reaches Earth's surface as large pellets of ice?
   - **A.** hail
   - **B.** rain
   - **C.** sleet
   - **D.** snow

3. Which of these sinking-air situations usually brings fair weather?
   - **A.** air mass
   - **B.** cold front
   - **C.** high-pressure system
   - **D.** low-pressure system

4. Which air mass contains cold, dry air?
   - **A.** continental polar
   - **B.** continental tropical
   - **C.** maritime tropical
   - **D.** maritime polar

5. Study the front below.



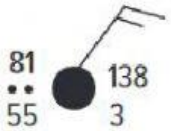
How does this type of front form?
- **A.** A cold front overtakes a warm front.
- **B.** Cold air moves toward warmer air.
- **C.** The boundary between two fronts stalls.
- **D.** Warm air moves toward colder air.

6. Which is an intense tropical storm with winds exceeding 119 km/h?
   - **A.** blizzard
   - **B.** hurricane
   - **C.** thunderstorm
   - **D.** tornado

7. Which contains measurements of temperature, air pressure, humidity, precipitation, and wind speed and direction?
   - **A.** a radar image
   - **B.** a satellite image
   - **C.** a surface report
   - **D.** a weather station

8. What does Doppler radar measure?
   - **A.** air pressure
   - **B.** air temperature
   - **C.** the rate at which air pressure changes
   - **D.** the speed at which precipitation travels

9. Study the station model below.



What is the temperature according to the station model?
- **A.** 3°F
- **B.** 55°F
- **C.** 81°F
- **D.** 138°F

10. Which describes cirrus clouds?
    - **A.** flat, white, and layered
    - **B.** fluffy, at middle altitudes
    - **C.** heaped or piled up
    - **D.** wispy, at high altitudes

11. Which instrument measures wind speed?
    - **A.** anemometer
    - **B.** barometer
    - **C.** psychrometer
    - **D.** thermometer

LIVEWORKSHEETS