

AMS Peer Training Module

Clouds

Activity: Clouds, Air Pressure and Temperature

1. temperature rose
2. temperature fell
3. pressure rose, temperature rose; pressure fell, temperature fell
4. temperature fell
5. sinking air encounters higher pressure, temperature rises
6. cloud formed on pressure release, falling pressure > falling temperature, air saturates
7. air rises, encounters lower pressure, cools to saturation for water, cloud forms
8. squeezing bottle increases pressure, raises temperature, evaporates cloud water
9. weather systems cause air to rise, experience lower pressure, cool and saturate forming clouds
when weather causes air to sink, pressure increases, air warms, water evaporates and clouds dissipate
10. air is rising when it is cloudy; air is sinking when it is clear
11. Highs have sinking air, Lows have rising air
12. (*see Real World Applications*)

Real World Applications

1. (g) both a and d
2. yes
3. yes