CHAPTER 18 REVIEW

NAME

1) Define precipitation -

MATCHING:

2)	MELTING	A	solid directly to gas (heat absorbed) (ex.
			Showbanks shrink even if there is no melting)
3)	FREEZING	В	solid to liquid (heat absorbed)
4)	EVAPORATING	С	gas to liquid (heat released)
5)	CONDENSING	D	gas directly to solid (ex. water vapor turns into
			snownakes)
6)	SUBLIMATING	E	liquid to gas (heat absorbed)
7)	DEPOSITING	F	liquid to solid (heat released)

8) Define humidity - _____

Calculate the relative humidity



- 13) What term do we use to say that the air is completely filled with water?
- 14) What is the temperature needed to condense water vapor into water droplets?
- 15) What are 2 tools used to measure humidity? Which one is digital?
- 16) If air is compressing, what is happening to the molecules?
- 17) If air is expanding, what is happening to the molecules?
- 18) If air rises, will it expand or compress?
- 19) If air expands, does the temperature increase or decrease?
- 20) What is it called when air rises, then expands, then cools down?

- 21) What is it called when air sinks, then compresses, then heats up?
- 22) Label each of the pictures, then answer questions about them.





- 23) Which air lifting process happens 2 air masses collide and then move upward?
- 24) Which air lifting process lifts air with the help of a mountain?
- 25) Which air lifting process happens due to unequal heating of the earth?
- 26) Which air lifting process involves a warm air mass rising up over top of a cold air mass?
- 27) Which picture shows stable air? Unstable air?





- 28) A cloud is water floating in the sky. We would describe it as condensation. Is condensation gaseous or liquid?
- 29) If you want condensation to occur, what must happen to the air?
- 30) What makes water molecules slow down so they can finally collide with each other?
- 31) If tiny water droplets coalesce, what will gravity be able to do?
- 32) What do water molecules stick to? (what is at the center of every raindrop/ snowflake?)
- 33) What are the 2 ways we classify clouds?
- 34) Which cloud type is made of ice crystals? (even in summer)
- 35) Which cloud type is flat and layered and can cover the whole sky?
- 36) Which cloud type looks like cauliflower?
- 37) Which cloud term describes middle level clouds?
- 38) What is the highest type of cloud?
- 39) What 2 things can you tell from the cloud name cumulonimbus?
- 40) What 2 things can you tell from the cloud name altostratus?
- 41) What 2 things can you tell from the cloud name cirrocumulus?

MATCH THE PRECIPITATION TYPES:

42)	Drizzle	A	Rain that falls through a freezing layer forming ice particles
43)	Rain	В	Snowpellets that look like dippin dots
44)	Sleet	С	Solid formed directly from water vapor
45)	Glaze	D	Ice pellets that have been lifted over and over forming layers of ice
46)	Hail	E	large condensation droplets (at least .5 mm)
47)	Snow	F	Freezing rain
48)	Graupel	G	Tiny condensation droplets (smaller than .5m)

49. If a cold cloud is going to make precipitation, what process occurs?

50. Describe the Bergeron process _____

51. If a warm cloud is going to make precipitation, what process occurs?

52. Describe the collision- coalescence process _____