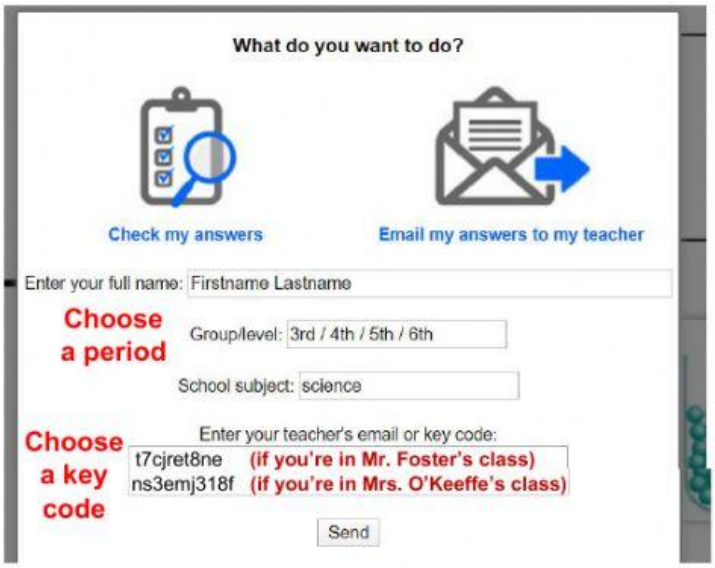
This worksheet is an alternative for your changes of state project. There are 8 different changes of state and each is worth 14 points, for a maximum of 80 points. When are you done checking your answers, select Email my answers to my teacher, and fill out the information below.

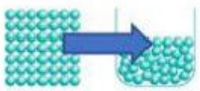


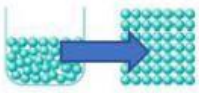
Example: Leaving an Ice Cube on the Counter

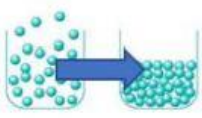
Spelling Matters! Write your answer exactly how you see it in the parenthesis!

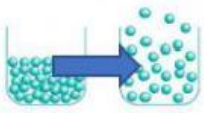
When you leave an ice cube on the counter it will **melt.**

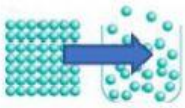
1. The ice cube changes from a _____ (solid, liquid, gas, plasma) to a _____ (solid, liquid, gas, plasma)
2. The particles will _____ (speed up, slow down)
3. The particles will _____ (get closer together, get farther apart)
4. The particles will _____ (gain energy, lose energy)
5. Which model shows what is happening during this change of state?

a. 

b. 

c. 

d. 

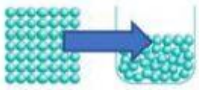
e. 

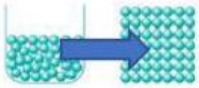
f. 

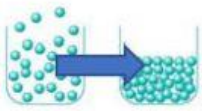
Example: Putting water in the freezer

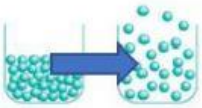
When you put water in the freezer it will **freeze**

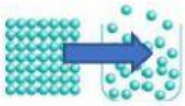
6. The water changes from a _____ (solid, liquid, gas, plasma) to a _____ (solid, liquid, gas, plasma)
7. The particles will _____ (speed up, slow down)
8. The particles will _____ (get closer together, get farther apart)
9. The particles will _____ (gain energy, lose energy)
10. Which model shows what is happening during this change of state?

a. 

b. 

c. 

d. 

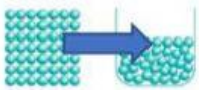
e. 

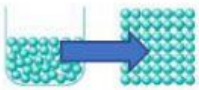
f. 

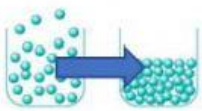
Example: heating up water to make Raamen Noodles

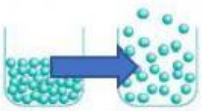
When you heat up the water on the stove it will **boil**

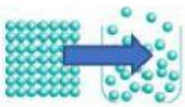
11. The water changes from a _____ (solid, liquid, gas, plasma) to a _____ (solid, liquid, gas, plasma)
12. The particles will _____ (speed up, slow down)
13. The particles will _____ (get closer together, get farther apart)
14. The particles will _____ (gain energy, lose energy)
15. Which model shows what is happening during this change of state?

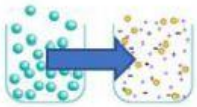
a. 

b. 

c. 

d. 

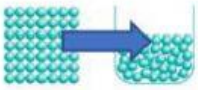
e. 

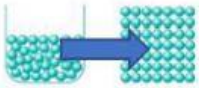
f. 

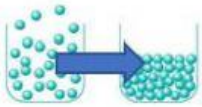
Example: Dew is on the grass in the morning

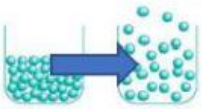
The dew on the grass appears because of **condensation**

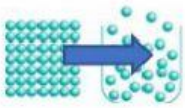
16. The water vapor in the air changes from a_____ (solid, liquid, gas, plasma) to a _____ (solid, liquid, gas, plasma)
17. The particles will _____ (speed up, slow down)
18. The particles will _____ (get closer together, get farther apart)
19. The particles will _____ (gain energy, lose energy)
20. Which model shows what is happening during this change of state?

a. 

b. 

c. 

d. 

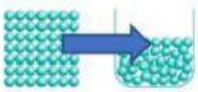
e. 

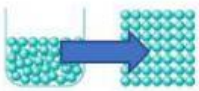
f. 

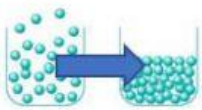
Example: dry ice

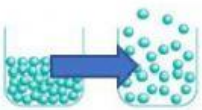
Solid carbon dioxide is also known as dry ice. When you leave it out in a room it will experience **sublimation**

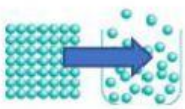
21. The carbon dioxide in dry ice will change from a _____ (solid, liquid, gas, plasma) to a _____ (solid, liquid, gas, plasma)
22. The particles will _____ (speed up, slow down)
23. The particles will _____ (get closer together, get farther apart)
24. The particles will _____ (gain energy, lose energy)
25. Which model shows what is happening during this change of state?

a. 

b. 

c. 

d. 

e. 

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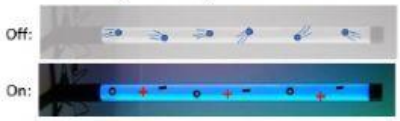
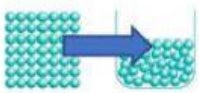
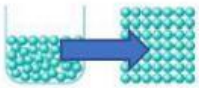
Example: Neon Lights

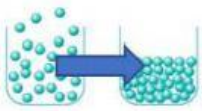


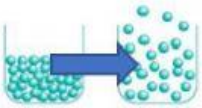
The tubes are filled with gas particles. When you add energy in the form of electricity the gas particles will **ionize**

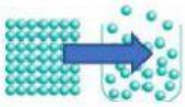
26. The particles will change from a _____ (solid, liquid, gas, plasma) to a _____ (solid, liquid, gas, plasma)
27. The particles will _____ (speed up, slow down)
28. The particles will _____ (get closer together, get farther apart)
29. The particles will _____ (gain energy, lose energy)
30. Which model shows what is happening during this change of state?

a. 

b. 

c. 

d. 

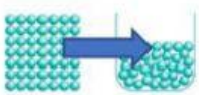
e. 

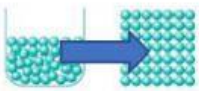
f. 

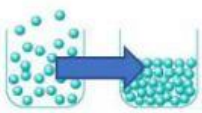
Example: Lightning Strike

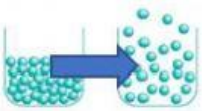
After a lightning strike, the positive and negative ions that make up the plasma will **recombine**

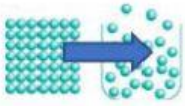
31. The particles will change from a _____ (solid, liquid, gas, plasma) to a _____ (solid, liquid, gas, plasma)
32. The particles will _____ (speed up, slow down)
33. The particles will _____ (get closer together, get farther apart)
34. The particles will _____ (gain energy, lose energy)
35. Which model shows what is happening during this change of state?

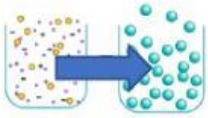
a. 

b. 

c. 

d. 

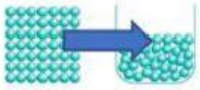
e. 

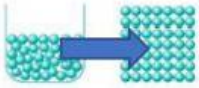
f. 

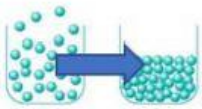
Example: frost forming on leaves

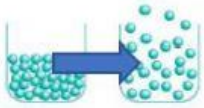
White frost covering cold surfaces is because of **deposition**

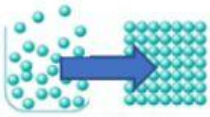
36. The particles will change from a _____ (solid, liquid, gas, plasma) to a _____ (solid, liquid, gas, plasma)
37. The particles will _____ (speed up, slow down)
38. The particles will _____ (get closer together, get farther apart)
39. The particles will _____ (gain energy, lose energy)
40. Which model shows what is happening during this change of state?

a. 

b. 

c. 

d. 

e. 

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