

Chemistry - Kinetic Molecular Theory Simulation

Name:

Hour:

Go to preparatorychemistry.com/KMT_flash.htm and answer the following questions IN COMPLETE SENTENCES.

1. What are the 4 parts of the Kinetic Molecular Theory?
2. Describe the motion of the particles in a solid.
3. Describe the motion of the particles in a liquid. Be sure and discuss how the motion differs from the motion of particles in a solid.
4. Describe the motion of the particles in a gas. Be sure and discuss how the motion differs from the motion of particles in a solid and particles in a liquid.
5. Describe how increasing the temperature of the particles in a liquid affects the motion of the particles.
6. Describe what happens to a gas particle after it collides with another gas particle.

7. Graph the following data.

- What is the melting point of this substance? _____
- What is the boiling point of this substance? _____
- What substance do you think was heated to provide these data? _____

Time (min)	Temp (°C)
0	-15.3
1	-11.2
2	-7.6
3	-3.7
4	-1.8
5	0.0
6	0.0
7	0.0
8	0.0
9	0.0
10	1.9
11	5.5
12	8.3
13	12.2
14	19.5
15	22.6
16	26.7
17	30.1
18	36.8
19	43.7
20	48.0
21	53.2
22	59.9
23	64.2
24	67.2
25	73.0
26	79.4
27	83.4
28	88.5
29	91.2
30	95.6
31	100.0
32	100.0
33	100.0
34	100.0
35	100.0
36	104.5
37	109
38	112.8
39	117.1
40	121.9