

### Heating & Cooling Curves Worksheet

Directions: Using the data table construct a heating curve for water. Use these labels on the graph: *Solid, Liquid, Gas, Solid & Liquid, Liquid & Gas, Melting, Boiling, Melting Point, Boiling Point, Direction of Exothermic Changes, Direction of Endothermic Changes, KE Changing, KE Not Changing*

Phase Changes of Water Data Table

Time	Temperature °C	11	45	22	100
1	-9	12	60	23	100
2	-3	13	75	24	100
3	0	14	90	25	100
4	0	15	100	26	105
5	0	16	100	27	118
6	0	17	100	28	123
7	0	18	100	29	129
8	0	19	100	30	135
9	15	20	100		
10	30	21	100		

Heating Curve of Water: The Effect of Heat Added Over Time On The Temperature of Water



Use these labels on the cooling curve of water below: *Solid, Liquid, Gas, Solid & Liquid, Liquid & Gas, Condensation, Solidification (Freezing), Freezing Point, Condensation Point, Direction of Exothermic Changes, Direction of Endothermic Changes, KE Changing, KE Not Changing*

Cooling Curve of Water: The Effect of Heat Removed Over Time On The Temperature of Water

