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| **Phase of****Matter** | **Examples** | **Particle and Energy Description** | **Picture of Particles** |
| Solid | Pen, comb, rocks, table | Particles are closely packed together or set into specific geometric shapes. They can’t move out of place, but they vibrate. Definite shape and definite volume. | http://ts4.mm.bing.net/th?id=I4595293545431671&pid=1.7&w=140&h=144&c=7&rs=1http://ts1.mm.bing.net/th?id=I4955606938422020&pid=1.7&w=181&h=138&c=7&rs=1 |
| Liquid | Water, Kool-aid, gasoline | Particles still closely packed together but they have enough energy to slip around each other (flow). Indefinite shape and definite volume. | http://ts4.mm.bing.net/th?id=I4595293545431679&pid=1.7&w=140&h=144&c=7&rs=1 |
| Gas | Air, oxygen, methane, carbon dioxide | Particles far apart. Have enough energy to separate completely from each other. Free to move in all directions until evenly spread out. Indefinite shape and indefinite volume. | http://ts2.mm.bing.net/th?id=I4869046167471313&pid=1.7&w=141&h=127&c=7&rs=1 |

Temperature and energy increase as a substance moves from solid, to liquid, and then to gas.