**States of Matter Worksheet**

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| --- | --- | --- | --- |
| **Characteristics** | **Solid** | **Liquid** | **Gas** |
| Shape | definite | indefinite | indefinite |
| Volume | definite | definite | indefinite |
| Examples | Ice  Rock  Book | Water  Gatorade  Milk | Water Vapor  Air  Helium |
| Picture of molecules | http://www.middleschoolchemistry.com/img/content/multimedia/chapter_1/lesson_5/solid.jpg | http://www.middleschoolchemistry.com/img/content/multimedia/chapter_1/lesson_5/liquid.jpg | In gases, the constituent molecules have the most movement, and are greatly spead apart. |
| Energy of molecules | Low | Medium | High |
| How molecules move | Vibrate in fixed positions | Slip and slide by each other | Spread apart and move rapidly |

**Plasma**

**Characteristics:** Electrically charged particles, molecules are spread apart more than a gas, high heat energy

**Examples:** Neon lights lightning stars Northern Lights (Aurora Borealis)

5th State of Matter: Bose-Einstein Condensate