# The particle model

#### Properties of solids:

- · have a definite shape
- · do not flow
- virtually impossible to compress
- expand if heated, but usually less than liquids and gases.



#### Particles in solids:

- · strongly bonded to each other
- vibrate a little, but not much compared to liquids and gases
- · vibrate faster when heated.

## Properties of liquids:

- · no definite shape
- can flow to take the shape of the bottom of a container
- very difficult to compress (virtually incompressible).

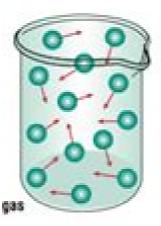


# Particles in liquids:

- · weakly bonded to each other
- break their bonds easily
- vibrate and move more than those in a solid
- move faster when heated.

# Properties of gases:

- no fixed shape
- gases spread (or diffuse) to completely fill a container
- gases are easily compressed.



#### Gas particles:

- · are 'free', having no bonds between them
- · have much more energy than those of a solid or liquid
- fly around, bouncing off each other and the walls of their container.

# **Particle Model Of Light 4 Answers**

**Brendan G. Carr** 

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