

Physical Properties of Matter Questions

1. What is an elastic collision?

a collision in which kinetic energy is conserved.

2. How does the kinetic energy of particles vary as a function of temperature?

as temperature increases, kinetic energy of the particles increases

3. What is an amorphous solid? Under what condition is such a solid likely to form?

*a solid without a definite, repeating crystal structure
it forms when the substance is cooled quickly*

4. List the types of crystalline solids that are usually good conductors of heat and electricity.

metallic solids

5. How does the strength of a liquid's intermolecular forces affect its viscosity?

the stronger the intermolecular forces, the higher the viscosity

6. How does sublimation differ from deposition?

*sublimation – changes from a solid to a gas without passing through the liquid phase,
requires energy*

*deposition – changes from a gas to a solid without passing through the liquid phase,
releases energy*

7. Define melting point.

*the temperature at which the forces holding the crystal lattice together are broken and
it becomes a liquid*