

Material Science Quiz **Answers**

Answer the following questions without the assistance of a neighbor, friend or teacher.

1. For each material, indicate its material class.

quartz	<u>3</u>
steel	<u>2</u>
Teflon [®]	<u>1</u>
aluminum	<u>2</u>
plywood	<u>4</u>
fiber glass	<u>4</u>
diamond	<u>3</u>
Zip Lock [®] bag material	<u>1</u>
paper clip	<u>2</u>
polyvinyl chloride (PVC)	<u>1</u>
concrete	<u>4</u>
paper	<u>4</u>

Material Classes:

1. polymer
2. metal
3. ceramic
4. composite

2. Connect each material to the corresponding material class.

ductility	<u>8</u>	1. Hard, covalently bonded material
brittle	<u>9</u>	2. Describes displacement of particles in a deforming body
lattice	<u>7</u>	3. Measured stress at onset of plastic deformation
ceramic	<u>1</u>	4. The brand of science that deals with metal properties
stress	<u>10</u>	5. Irreversible alteration of a solid body under stress
plastic deformation	<u>5</u>	6. Reversible alteration of a solid body under stress
yield	<u>3</u>	7. 3D geometric arrangement of atoms composing a crystal
strength	<u>6</u>	8. Ability of material to undergo permanent deformation without fracture
elastic deformation	<u>2</u>	9. Ability of material to break, or crack easily when subjected to a force
strain	<u>4</u>	10. Force exerted on an object over a defined cross-sectional area
metallurgy		

3. What type of bonding makes up ceramic materials?

- a. covalent bonds
- b. London dispersion forces
- c. metallic bonds
- d. ionic bonds

4. How many lattice structures exist?

- a. 2
- b. 4
- c. 7
- d. 5

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