

Student 1

- (a) Z
- (b) *Z has a low melting point because it is covalent the bonds are weak.
X has a high melting point because it has a giant structure. It takes more heat to break up X.*
- (c) *Because it is an ionic compound*

Student 2

- (a) X, Y and Z
- (b) X is diamond and is giant covalent. The covalent bonds are strong in diamond. Z is covalent too but it has small molecules. Intermolecular forces are weak. Y has covalent bonds between the ions.
- (c) Y is sodium chlorid. There are strong forces between the ions in sodium chlorid.