Review of Bonding

Why do substances bond?

What characteristics are associated with a metal?

What elements bond covalently?

* Polar covalent?
* Non-polar covalent?
* Draw Lewis structures and say what shape they would be.

What elements bond ionically?

What are the properties of ionic substances?

Show how an ionic substance forms, using Lewis dot notation.

Explain how substances dissolve

What does VSEPR theory say?

Type Shape

* AB2
* AB3
* AB4
* AB5
* AB6
* AB2E2

AB3E

Intermolecular bonding

What interactions are there?

Why does water make hydrogen bonds but hydrogen sulfide does not?

Why are hydrogen bonds so important biologically?

What are the differences between phases of matter in terms of intermolecular bonds?