

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Answer Key: Why Do Atoms Hold Hands? A 1st Grade Chemistry Quiz

Students apply critical thinking to identify how tiny particles stick together like magnets or LEGO bricks to form the world around them.

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**1. Imagine two tiny pieces of the world want to stay together. They decide to share a toy (an electron) between them. What kind of 'hand-holding' bond is this?**

**Answer:** B) A covalent bond

In chemistry, when two atoms share electrons to stay connected, scientists call it a covalent bond.

**2. True or False: Tiny pieces of stuff called atoms can stick together to make bigger things like your juice or your toys.**

**Answer:** A) True

Chemical bonding is the way atoms stick together to form everything we see and touch.

**3. When one atom gives a 'gift' to another atom to make them both happy and stuck together, it is called an \_\_\_\_\_ bond.**

**Answer:** B) Ionic

An ionic bond happens when one atom gives an electron to another, making them attract each other like magnets.

**4. Think about a metal spoon. All the tiny parts inside are sharing a big 'hug' to stay strong. What type of bond makes metals like silver and gold so strong?**

**Answer:** C) Metallic bonds

Metallic bonds are special connections in metals where many atoms share electrons in a big group.

**5. True or False: Atoms only bond because they want to fall apart.**

**Answer:** B) False

Atoms bond because it makes them more stable and happy, which helps them stay together, not fall apart.

**6. If atoms are like LEGO bricks, the \_\_\_\_\_ are the bumps that help them snap together.**

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**Answer:** B) Bonds

Bonds are the 'snaps' or 'glue' that hold atoms together to build molecules.

**7. What happens if a bond between atoms is very strong?**

**Answer:** B) The atoms stay glued tight

A strong bond acts like extra-strong glue, making it very hard to pull the atoms apart.

**8. True or False: Water is made of different atoms that have bonded together.**

**Answer:** A) True

Water is made of hydrogen and oxygen atoms that use covalent bonds to stay together.

**9. Atoms stick together to become \_\_\_\_\_, which are bigger groups of atoms hooked together.**

**Answer:** B) Molecules

When atoms bond together, they form a molecule, which is the next step up in building things.

**10. When two magnets pull toward each other, it's like an ionic bond. Which word describes this pull?**

**Answer:** A) Attraction

Attraction is the 'pull' that brings atoms together in a bond.