**Name:** _____ **Date:** _____

## Stuck Like Magic: Chemical Bonds for 3rd Grade Alchemists

Can you unravel the sticky secrets of the tiny world? Use glue-like science to build sugar cubes and shiny diamonds while exploring matter.

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**1. Imagine two nitrogen atoms decide to 'hold hands' by sharing their outer parts to stay together. What kind of bond is this?**

A. A magnetic pull
B. A covalent bond
C. A gravity glue
D. A physical knot

**2. True or False: Atoms act like tiny building blocks that can snap together to make everything we see.**

A. True
B. False

**3. When a silver spoon is made, many silver atoms share a big 'pool' of moving parts. This is called a _____ bond.**

A. Freezing
B. Icy
C. Metallic
D. Rubber

**4. If an atom 'gives away' a part of itself to another atom so they both become charged and stick together, it creates what?**

A. An ionic bond
B. A covalent bond
C. A paper bond
D. A hidden bond

**5. Sugar crystals are held together by atoms sharing electrons. This means sugar is a _____ compound.**

A. Metallic
B. Covalent
C. Magnetic
D. Gaseous

**6. True or False: In a metallic bond, the atoms are held together loosely like a pile of dry sand.**

A. True
B. False

**7. Why do atoms bother to form bonds in the first place?**

A. To change their color
B. To become bigger
C. To become more stable and happy
D. To get hotter

**8. Lithium fluoride is a type of salt. Because it is made of atoms that transferred electrons, its bond type is _____.**

A. Ionic
B. Liquid
C. Airy
D. Wobbly

**9. True or False: A diamond is very hard because the carbon atoms inside are locked together by covalent bonds.**

A. True
B. False

**10. Which of these acts most like an ionic bond?**

A. Two friends sharing a single cookie
B. A person giving a ball to a friend, then standing close to them
C. Many people swimming in the same pool
D. Two people ignoring each other