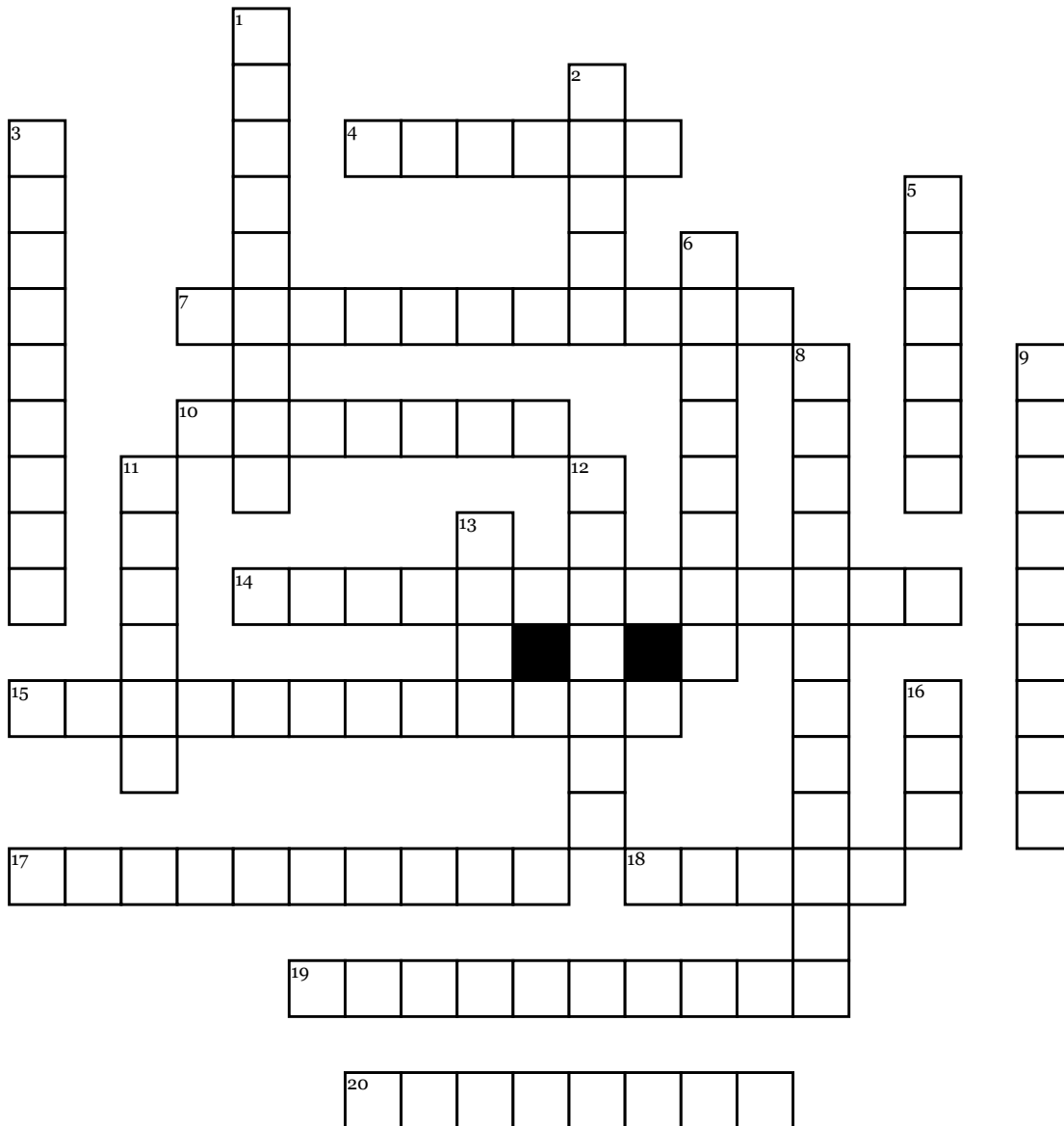


Name: \_\_\_\_\_

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

# States of Matter and Atoms



## Across

- 4.** Molecules slide over each other in this phase of matter.  
**7.** Solid to gas  
**10.** This holds no charge  
**14.** The addition of this, increases molecule speed and can eventually result in a phase change. (2 words)  
**15.** This is the number on the periodic table that tells you the number of protons AND electrons in an atom. (2 words)  
**17.** This minus the atomic number will give you the number of neutrons in an atom. (2 words)

**18.** This has a definite shape and volume.

**19.** gas to solid

**20.** This element has the atomic symbol N.

## Down

- 1.** These are made up of atoms  
**2.** How many electrons can exist in the second energy level?  
**3.** This is a way to describe the movement of solid molecules  
**5.** This atomic particle has a positive charge.  
**6.** Water is an example of this but diatomic Nitrogen is not.

**8.** Another word for Evaporation

**9.** These are the smallest atomic particles

**11.** This element is found in all organic matter (all organisms).

**12.** A dense, tightly packed part of an atom

**13.** the smallest unit of matter that maintains all of its properties

**16.** This has a volume and shape that depends on its container.