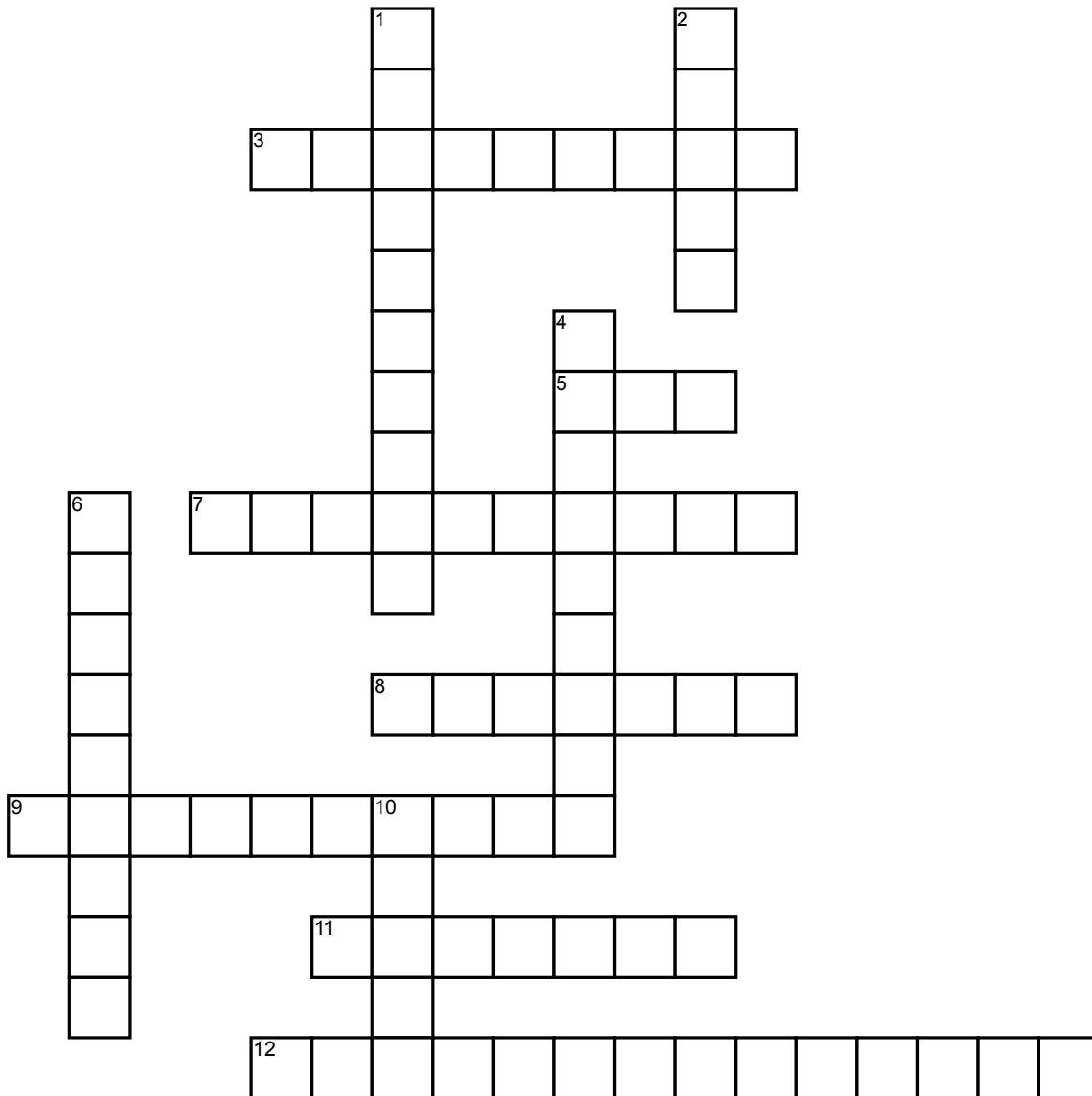


Name: \_\_\_\_\_

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

# Metallic Materials



## **Across**

**3.** A type of cast iron that is made by heating white cast iron to a specific temperature and then cooling it slowly to soften the metal.

**5.** Classifies steel according to the quantity of carbon in steel.

**7.** These metals cannot be used in their natural form because they are either too soft, too hard, or too expensive.

**8.** Results in the breaking of metal when stressed is removed and reapplied over and over.

**9.** The ability of a material to change shape or size as a result of force being applied.

**11.** These metals contain iron.

**12.** A \_\_\_\_\_ is a material that is able to conduct electricity without exhibiting any resistance to the flow of current.

## **Down**

**1.** This steel is prepped while it is cold, and has a shiny surface finish.

**2.** A blend of two or more elements.

**4.** The ability for metal to be formed plastically, without breaking.

**6.** Alloying iron with nickel and chromium creates a highly corrosive resistant steel.

**10.** The elongation of materials that occurs when the material is exposed to high temperatures while under stress.