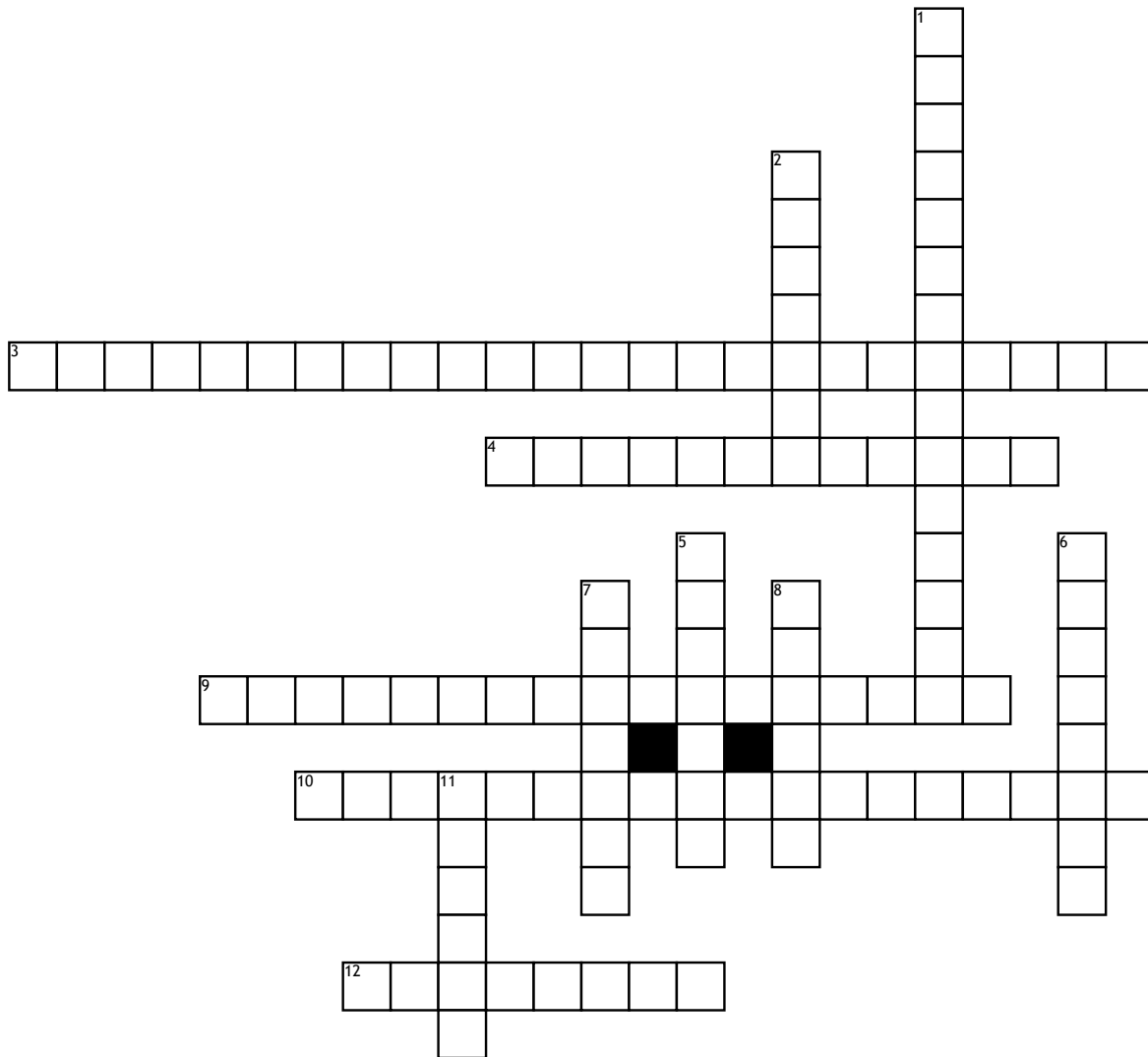


# Chapter 5 Minerals of the Earth's Crust



## Across

3. The basic structure of silicate minerals; a silicon ion chemically bonded to and surrounded by four oxygen ions  
 4. A person who examines, analyzes, and classifies minerals  
 9. The standard scale against which the hardness of minerals is rated  
 10. A mineral that does not contain compounds of silicon and oxygen  
 12. the manner in which a mineral breaks along either curved or irregular surfaces

## Down

1. A mineral that contains a combination of silicon and oxygen and that may also contain one or more metals  
 2. A natural, usually inorganic solid that has a characteristic chemical composition, an orderly internal structure, and a characteristic set of physical properties  
 5. A solid whose atoms, ions, or molecules are arranged in a regular, repeating pattern

6. the tendency of of a mineral to split along specific planes of weakness to form smooth, flat surfaces  
 7. The ratio of the mass of a substance to the volume of the substance; commonly expressed as grams per cubic centimeter for solids and liquids and as grams per liter for gases  
 8. The way in which a mineral reflects light  
 11. The color of a mineral in powdered form