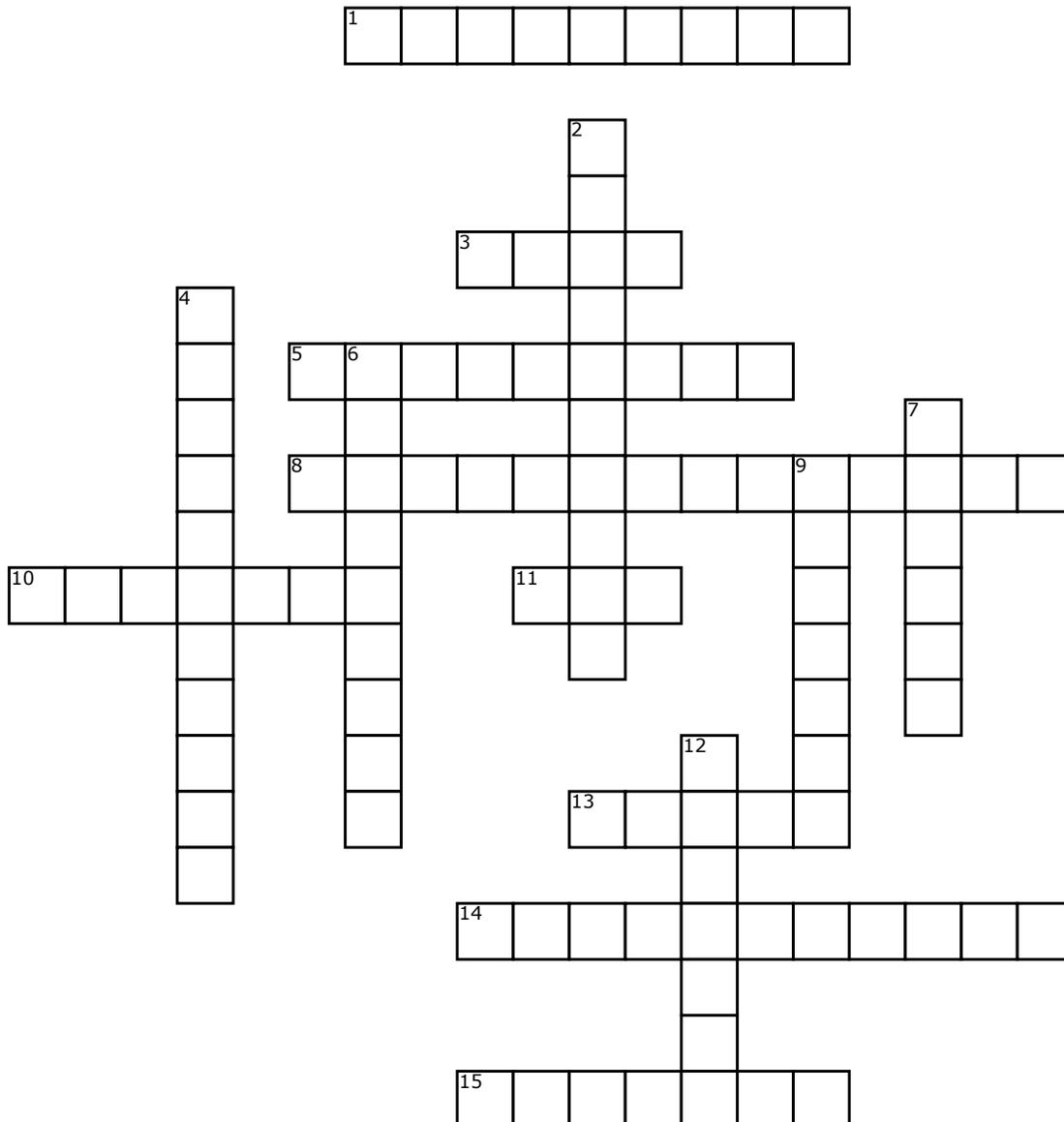


Chapter 8: Energy from Electron Transfer



Across

1. a process in which a chemical species loses electrons

3. these vehicles use rechargeable batteries for short daily commutes

5. a process in which a chemical species gains electrons

8. materials that have a limited capacity of conducting an electric current

10. rate of electron flow

11. vehicles propelled by a combination of conventional gasoline engine and an electric motor run by batteries

13. oxidation takes place here

14. produced by the movement of electrons through an external circuit

15. a system for the direct conversion of chemical energy to electrical energy

Down

2. electrical conductors within a cell that serve as sites for chemical reactions

4. substance that conducts electric current as a result of a dissociation into positively and negatively charged particles called ions,

6. found in all atoms, a stable subatomic particle with a charge of negative electricity

7. a process of intentionally adding small amounts of other elements

9. where reduction takes place

12. measured in units called volts