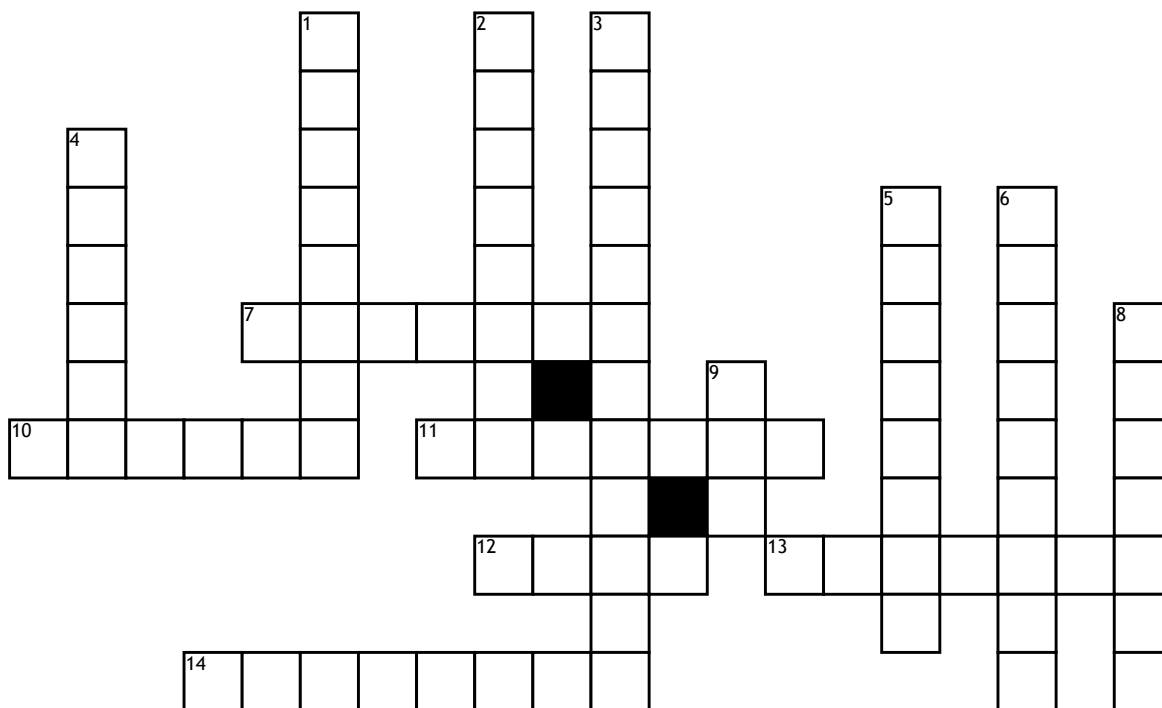


Chapter 4 Earth chemistry



Across

7. a combination of two or more substances that are not chemically combined

10. a subatomic particle that has a positive charge and that is located in the nucleus of an atom; the number of protons of the nucleus is the atomic number, which determines the identity of an element

11. a subatomic particle that has no charge and that is located in the nucleus of the atom

12. the smallest unit of an element that maintains the chemical properties of that element

13. one of two more atoms that have the same number of protons (atomic number) but different number of neutrons

14. a substance made up of atoms of two or more different elements joined by chemical bonds

Down

1. a homogeneous mixture throughout which two or more substances are uniformly dispersed

2. a group of atoms that are held together by chemical forces

3. a bond formed when atoms share one or more pairs of electrons

4. anything that has mass and takes up space

5. a subatomic particle that has a negative charge

6. the attractive forces between oppositely charged ions, which form when electrons are transferred from one atom or molecule to another

8. A substance that cannot be separated or broken down into simpler substances by chemical means

9. an atom or molecule that has gained or lost one or more electrons and has a negative or positive charge