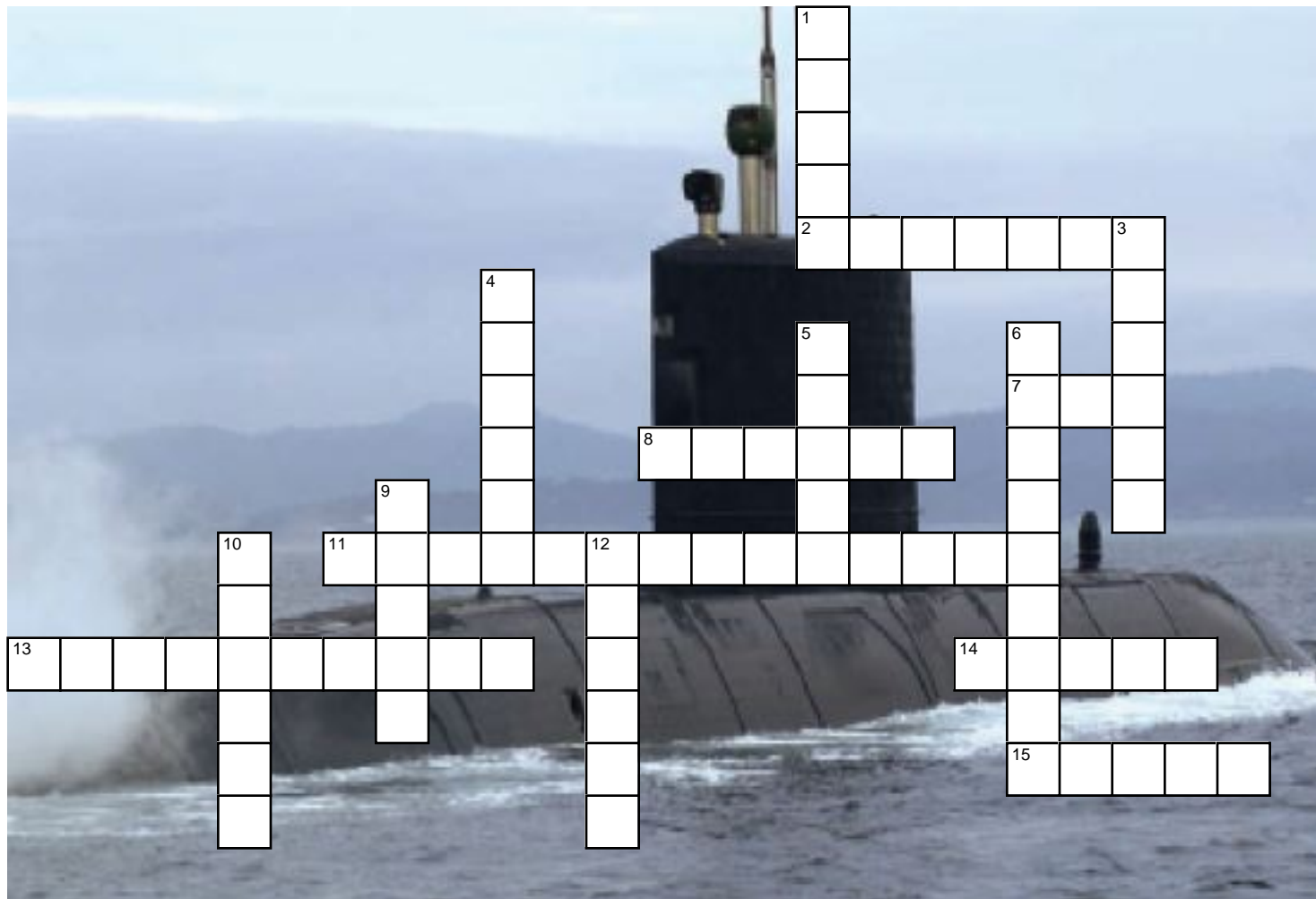


7.1 The Many Uses of Fluids



Across

2. Some mineral ores are converted to _____ in a method called froth flotation so that they can be transported more easily.
7. A balance of seawater and compressed _____ in the ballast tanks allows this submarine to stay at a constant depth.
8. Some fluids such as gases can be forced into a smaller _____ such as the air that pumps up a bicycle tire.
11. This type of diver is named after Rene Descartes, a French scientist, mathematician and philosopher who lived about 400 years ago (two words).
13. Fluids are easy to move and they take the shape of their _____.
14. By making changes to the volume of _____ in its air bladder, a fish can control whether it stays at a constant depth, rises or sinks.
15. When this submarine's ballast tanks are filled with seawater the weight of the submarine is greater than the weight of the water it displaces and so the submarine _____.

Down

1. _____ is an example of the use of fluids in processing materials. It consists of a mixture of iron, carbon and small quantities of other substances.
3. A mixture of water and solids is called a _____.
4. _____ is a mixture of materials such as limestone, clay and gypsum.
5. A _____ is any substance that flows.
6. The ability of fluids to hold or carry other _____ makes them useful in many applications.
9. Slurry technology, the transport of solids in _____, is important in many applications.
10. _____ is considered to be a fourth state of matter.
12. Substances in their fluid form can be shaped and then cooled to become _____.