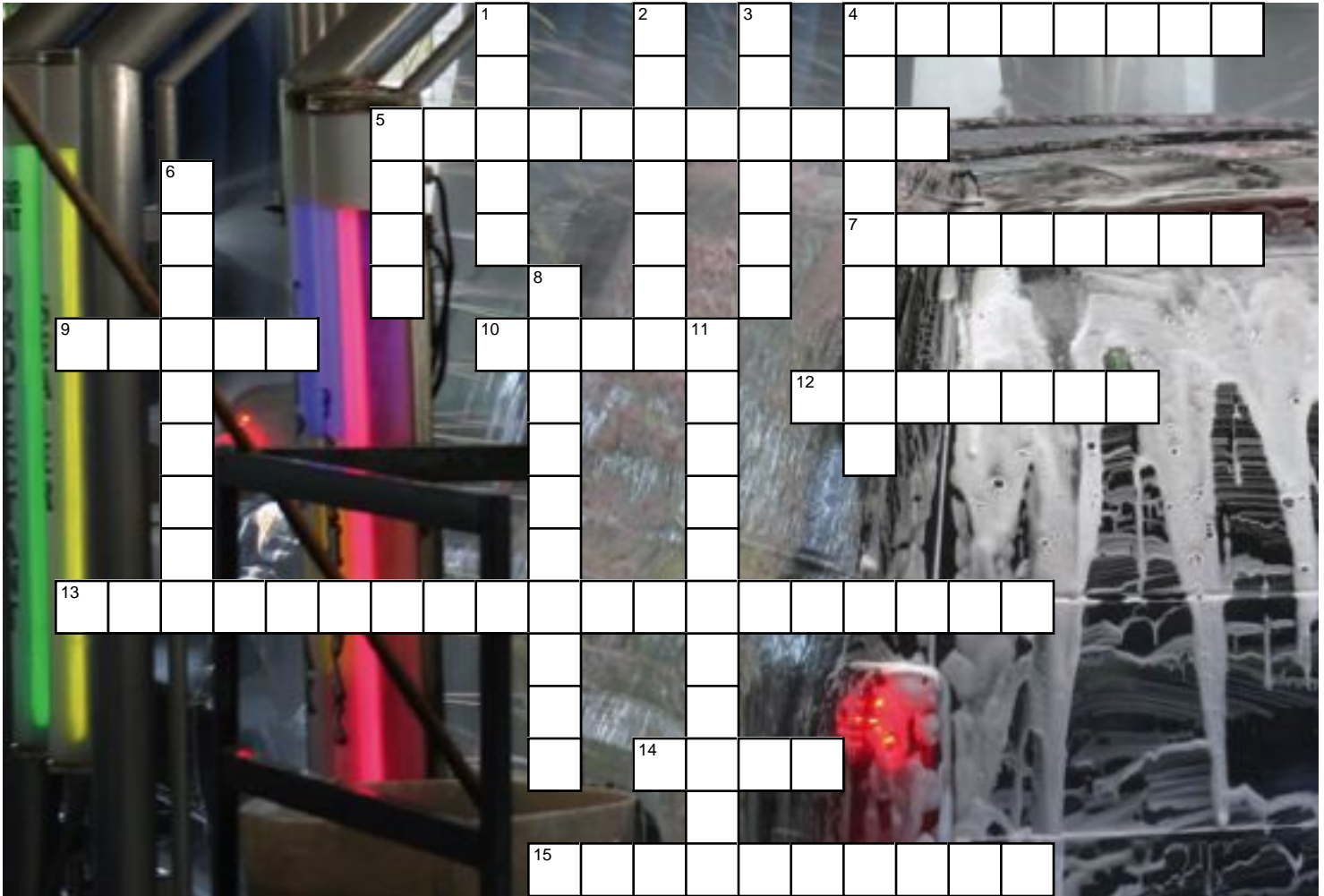


9.1 Fluid Systems



Across

4. A sea star moves by changing the _____ of the fluid in its feet.
5. A _____ is a group of parts including at least one fluid that interact with each other and function together as a whole.
7. Hydraulic systems can _____ the force exerted by a liquid.
9. When pressure is applied to a liquid in a pipe or tube the _____ can be transmitted over a distance.
10. A _____ uses two pistons of different sizes to create pressure in order to lift a vehicle.
12. _____ cannot be compressed by ordinary means.
13. One of the earliest uses for the _____ was to remove water from the hold of a ship.
14. A _____ is a device that moves a fluid through or into something.
15. One treatment for decompression sickness is to place the affected diver in a _____ chamber.

Down

1. _____ stands for self-contained underwater breathing apparatus.
2. _____ law states that when force is applied to an enclosed fluid the increase in pressure is transmitted equally to all parts of the fluid.
3. A _____ is a disk that moves inside a cylinder.
4. _____ systems are fluid systems that use a gas (usually air) as the enclosed fluid.
5. _____ is any substance that is produced when a fluid in the form of gas becomes trapped in a liquid or a solid.
6. _____ systems are fluid systems that use a liquid such as water or oil as the enclosed fluid.
8. In order for a gas to be put to work in a fluid system it must first be _____.
11. An advantage of pneumatic systems is that they are more reliable over a large _____ range than are hydraulic systems.