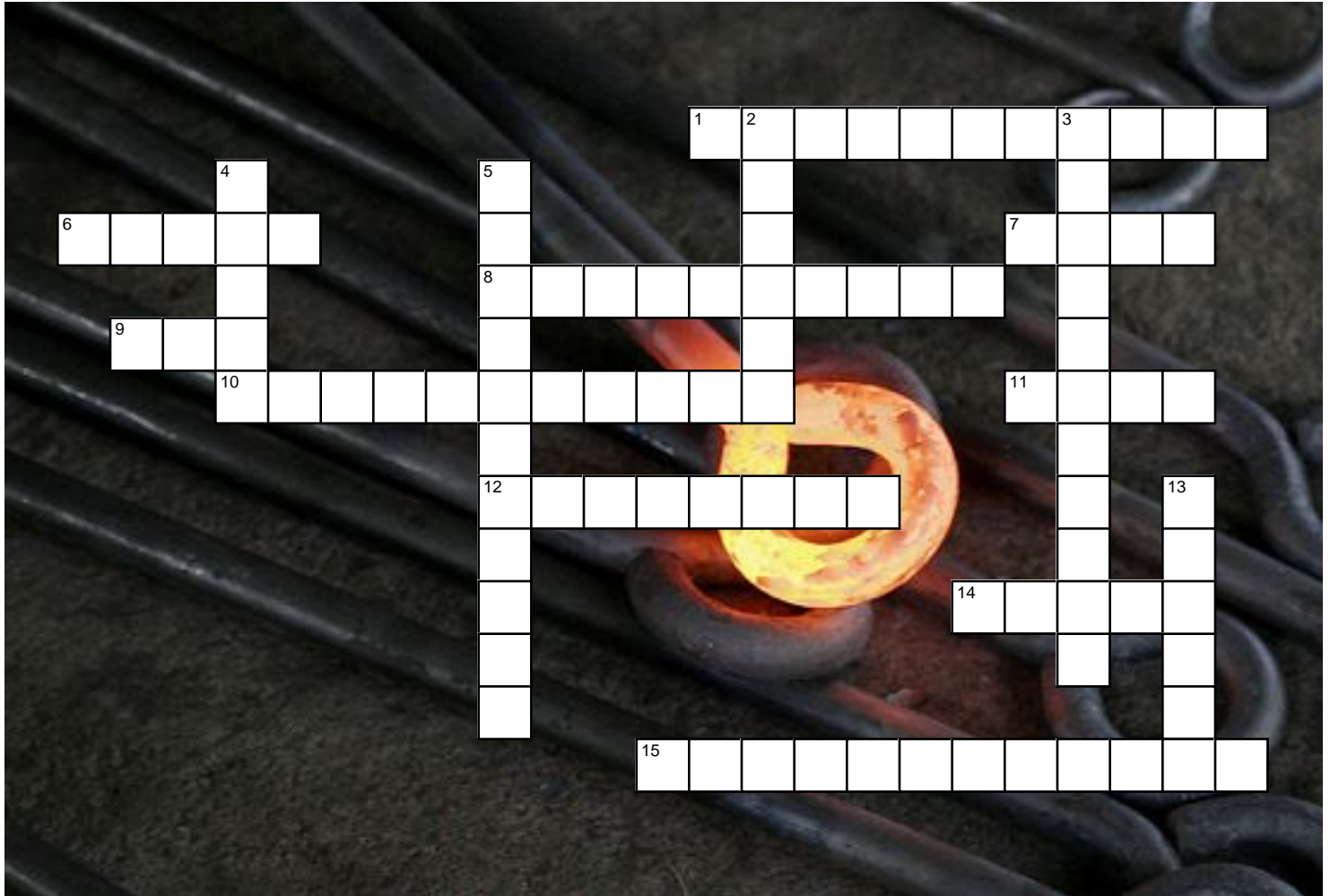


10.2 What Is Hot? What Is Cold?



Across

- Heat transfer can raise the _____ of a solid, a liquid or a gas.
- Thermal energy is the _____ energy of all the moving particles in a solid, liquid or gas.
- Suppose you pour a cup of steaming hot tea from a teapot. You touch the cup with a finger. Somehow the cup has become hotter, maybe hot enough to burn your finger. This transfer of energy from the pot to your finger is called _____.
- Heat is the transfer of thermal energy between or within solids, liquids and gases due to a _____ in temperature.
- All the particles in a cup of hot tea are moving quickly so the tea is _____.
- Wind energy and flowing water can be used to generate _____ for heating buildings and for other uses.
- Which of the following is not a source of renewable energy? sun wind coal flowing water
- A renewable source of heat is one that can be _____.
- We obtain the heat we need from the Sun and many different kinds of _____ such as wood, coal, oil and natural gas.
- Once we use fossil fuels we cannot replace them so they are called _____ - _____ energy sources.

Down

- Temperature is the average _____ of the moving particles of a solid, a liquid or a gas.
- We use a _____ to measure the temperature of solids, liquids and gases.
- A light bulb transforms electrical energy into light and heat. The heat from the bulb is considered "_____ " heat because we do not need it.
- Fossil fuels were formed millions of years ago from the remains of plants and animals. These fuels come from _____.
- Our main source of heat is the burning of _____ fuels such as oil, natural gas and coal.