

Safety Symbols

Safety is the priority in the science classroom. In all of the activities in this textbook, safety symbols are used to alert you to materials, procedures, or situations that could be potentially hazardous if the safety guidelines are not followed. Learn what you need to do when you see these icons, and read all lab procedures before coming to the lab so you are prepared. Always ask your teacher if you have questions.



ANIMAL SAFETY Never injure an animal. Follow your teacher's instructions for handling specific animals or preserved specimens. Wash your hands with soap and water when finished handling animals or preserved specimens.



APRON Wear an apron when using any substance that could cause harm if spilled on you. Stand whenever possible to avoid spilling in your lap.



BREAKAGE Use caution when handling items that may break, such as glassware and thermometers. Always store test tubes in a test tube rack.



CHEMICAL SAFETY Always wear goggles when working with chemicals. Stand whenever possible when working with chemicals to avoid spilling on your lap. Tell your teacher immediately if you spill chemicals on yourself, the table, or floor. Never taste any substance or chemical in the lab. Always wash your hands after working with chemicals.



DISPOSAL Follow your teacher's instructions for disposing of all waste materials, including chemicals, specimens, or broken glass.



ELECTRICAL SAFETY Keep electrical cords away from water to avoid shock. Do not use cords with frayed edges. Unplug all equipment when done.



FIRE SAFETY Put on safety goggles before lighting flames. Remove loose clothing and tie back hair. Never leave a lit object unattended. Extinguish flames as soon as you finish heating.



FUMES Always work in a well-ventilated area. Bring fumes up to your nose by wafting with your fingers instead of sniffing.



GENERAL SAFETY Always follow the safety rules and ask your teacher if you are unsure about something. If you are designing your own experiment, get your teacher's approval on your plan before you start. Think about which safety rules you must follow in your experiment.



GLOVES Always wear gloves to protect your skin from possible injury when working with substances that may be harmful or when working with animals.



HAND WASHING Wash your hands with soap and water after working with soil, chemicals, animals, or preserved specimens.



HEATING SAFETY Wear goggles and never leave any substance while it is being heated. Use tongs, hot pads, or test tube holders to hold hot objects. Point any materials being heated away from you and others. Place hot objects such as test tubes in test tube racks while cooling.



HOT/GLOVE Always wear gloves such as oven mitts when handling larger hot materials.



POISON Never touch, taste, or inhale chemicals. Most chemicals are toxic in high concentrations. Wear goggles and wash your hands.



SAFETY GOGGLES Always wear safety goggles when working with chemicals, heating any substance, or using a sharp object or any material that could fly up and injure you or others.



SHARP OBJECTS Use scissors, knives, or razor tools with care. Wear goggles when cutting something with scalpels, knives, or razor tools. Always cut away from yourself.