

TEKS

- 1A** Demonstrate safe practices during laboratory and field investigations
- 1B** Demonstrate an understanding of the use and conservation of resources and the proper disposal or recycling of materials

instructional content:

The following proficiencies are introduced, reviewed, emphasized, and reinforced at the start of the course and applied throughout the course.

- ✦ Laboratory safety
 - Safe practices
 - Safety equipment and location
 - SDS
 - Hazardous chemicals handling
 - Disposal of chemicals, glassware, specimens, contaminated Petri dishes
 - Recycling of materials

learning outcomes students will:

- Demonstrate the proper use of protective safety equipment including goggles, aprons, and gloves
- Know the location and use of emergency equipment
- Use safety symbols to recognize common types of safety hazards and safety equipment
- Know response procedures to laboratory emergencies
- Recognize their responsibility for maintaining a safe and productive atmosphere
- Apply and communicate knowledge of safety rules
- Demonstrate appropriate use of laboratory glassware and equipment
- Know how to extract important safety information from a Safety Data Sheet



Incorporate scientific process skills during the instruction of all Biology concepts. Look for this icon at wardsci.com/TEKS for more information on scientific process skills.

Recommended Ward's Science products with item numbers for easy online searching:

science tools:

[Ward's Chemical Storage Start-Up Kit 9499609](#)
[Safety Signs 153210](#)
[Hazardous Material Identification System \(HMIS\) Labels 158742](#)
[Contempo Goggles 153028](#)
[Polycarbonate Lens Chemical Goggles 153222](#)
[Visorgogs 153005](#)
[Replacement Goggle Straps 6201110](#)
[Lens Cleaning Towelettes 4757200](#)
[Thirty-Five Goggle Sanitizing Cabinet 9400267](#)
[Rubber Aprons 6019500](#)
[Vinyl Apron 151013](#)

[Shower Flush System 175710](#)
[Nomex/Kevlar Fire Blanket 4721201](#)
[Powder-Free Disposable Nitrile Gloves 151090](#)
[VWR Glass Disposal Box 9400254](#)
[All-Purpose Chemical Spill Response Set 159021](#)
[Chemical Spill Tray 181409](#)
[Heavyweight Spill Control Pads 158743](#)
[Hot Hand Protector 153113](#)
[Sharps Container 159010](#)
[VWR Education First Aid Kits 154912](#)

instructional resources:

[Safety Data Sheets \(SDSs\) \(Search Teacher Resources\)](#)
[Ward's B-Safe: Safety in the Science Laboratory Lab Activity 366225](#)
[Laboratory Safety Chart 335520](#)
[Tools of Science Memory Game Flashcards 6730201](#)
[Still Safe Safety Board Game 365435](#)
[Safe and Simple: Rules of Laboratory Safety Game 176511](#)