

Introduction: Deciphering Shop Safety Symbols

Activity Goal: Students will identify high-contrast industrial safety symbols (Biohazard, High Heat, Sharp Objects, Eye Protection) and recognize physical machinery safety zones (red floor boundaries) in a controlled classroom environment.

Embedded Skill Targets:

- Matching safety symbol icons to their corresponding real-world meanings.
- Identifying red visual tape as a physical barrier indicator for dangerous machinery.
- Activating a voice-output switch or AAC device to communicate: "Stop, danger zone."

Curricular Area	Learning Spectrum		
	Basic	Emerging	Proficient
9th Grade: Knowledge-Based (Safety Sign Literacy)	Matches tactile, high-contrast hazard symbols (Biohazard for Biotech, Flame for Cosmetology/Culinary, Needle/Scissors for Fashion/Barbering) to matching category boards.	Selects visual cards to match safety symbols to the correct trade shop (e.g., chemical hazard icon matched to the Biotechnology shop photo).	Explains the difference between a "Caution" sign (potential hazard) and a "Danger" sign (immediate hazard) during classroom board reviews.
10th Grade: Application-Based (Boundary Concept)	Places tactile boundary markers (miniature red tape strips) around photos of shop machinery to establish a 3-foot safe zone perimeter.	Identifies red tape lines on a classroom floor mockup and states that workers must not cross red lines without supervisor permission.	Explains how physical safety boundaries protect workers from heat, moving parts, and chemicals on an active trade floor.

Provided: • High-contrast safety symbol flashcards representing Biohazard, Caution, Danger, and Eye Protection. • Tactile category boards with textured boundary markers (smooth plastic vs. rough sandpaper). • AAC-adapted visual icons representing "Stop," "Danger," "Hot," and "Sharp."	Needed: • Red duct tape. • Standard safety glasses, a styling mannequin head (Cosmetology), and mock tools (wooden spoons, cardboard sewing machine).
---	--

Preparation:

1. Lay down a solid red tape line on the classroom floor around a mock work table to represent a machinery safety zone.
2. Program voice-output switches (BIGmack buttons) and personal speech-generating devices with the target phrase: "Stop, danger zone."

Helpful Learning Tools

- Tactile Safety Symbol Board: A desktop board with raised-texture safety signs to allow tactile exploration of industrial hazard icons

Instructions:

1. Gather students at the central communication board for the 5-Minute "Shop Huddle". Introduce the concept of safety lines: "In every shop room, dangerous work zones are marked with red floor tape. The red line is a wall. It tells our bodies to stop and stay back to keep us safe."
2. Hand out physical mock tools (styling irons, scissors, mixing bowls) to conduct Tactile Boundary Drills. Guide students to identify which tools are hot or sharp, and show them how these items must stay inside the red tape lines on the table.
3. Guide students to sort safety sign cards onto the corresponding shop category board during the Classroom Sign Sort.

4. For the device navigation, assist non-verbal students in opening their devices to the "Safety" or "Vocational" folder. Model touching the "Danger" icon, and prompt students using voice-output switches to activate the switch to vocalize: "Stop, danger zone."

Activity Variation:

- For students with low vision or cortical visual impairment (CVI), utilize physical safety signs with high-contrast LED backlighting to reinforce danger boundaries.
- Have students practice physical boundary postures: standing with hands in pockets behind the red tape line (Safe Mode) versus stepping over the line with hands extended (Unsafe Mode).