

Safety Trainer: Building Safety Masks

Adventure Description:

In this adventure, students will think like a safety and HAZMAT trainer and create a safety mask to be worn by personnel that work in locations with hazardous materials.

Activity

Step One: Background Information (5 minutes)

- Ask students if they know some examples of hazardous materials. Explain that chemicals like pesticides that kill bugs and herbicides that kill weeds are examples of hazardous materials. Hazardous materials are materials that can be dangerous for a person's health. Show [Handout: Hazardous Materials](#).
- Explain to students that safety and HAZMAT trainers are responsible for teaching classes and creating equipment for workers that work in dangerous or hazardous conditions. For example, safety and HAZMAT trainers create personal protective equipment, which is designed to protect workers from hazardous materials. Personal protective equipment includes gloves, face masks, and overalls.
- Tell students that they will now create a safety mask for workers in a specific location. Show [Handout: Safety Masks](#). Discuss the different features of the safety masks on the handout.

Step Two: Hazardous Locations (5-10 minutes)

- Explain to students that they will choose one location that they will create a safety mask for.
- Provide students with [Handout: Investigating Hazardous Locations](#). Walk through the different locations and requirements as a class.

Step Three: Creating a Safety Mask for Hazardous Locations (20 minutes)

- Explain to students that they will now create a safety mask for one of the locations listed on the previous handout.
- Have students spend 5 minutes sketching a design of their mask on [Handout: Designing a Safety Mask](#).
- Once students have finished designing their safety masks, provide them with art supplies and building materials.
- Allow students 15-20 minutes to create a safety mask. While students are working, ask them the following questions:
 - How is your mask going to filter the air that is coming in?
 - Why is filtering air important in your location?
 - Do you think safety masks are important in other careers? Give an example.
- Have a concluding class discussion about why safety and HAZMAT trainers must create different types of safety masks for different conditions.

Please contact Allison Bischoff, Director of Teacher Support, at allison@rozzylearningcompany.com or 314-272-2560 with questions.

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Materials List

Provided online:

- Handout: Hazardous Materials
- Handout: Safety Masks
- Handout: Investigating Hazardous Locations
- Handout: Designing a Safety Mask

Not provided (each student or group needs):

- Art and Building Materials (ex: clean recyclables, pipe cleaners, string, tin foil, pipe cleaners, egg cartons)

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