

Hazard:

Anticipate:

Mitigate & Prevent:

Respond:

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Describe the appropriate safety gear and clothing that should be used when working with robotics.

- b. Discuss first aid and prevention for the types of injuries that could occur while participating in robotics activities and competitions, including cuts, eye injuries, and burns (chemical or heat).

Cuts,:

Eye injuries:

Chemical Burns:

Heat burns:

2. **Robotics industry.** Discuss the following with your counselor:

a. The kinds of things robots can do and how robots are best used today.

What they can do:

How they are best used:

b. The similarities and differences between remote-control vehicles, telerobots, and autonomous robots.

Similarities:

Differences:

c. Three different methods robots can use to move themselves other than wheels or tracks.

- 1.
- 2.
- 3.

5. **Demonstrate.** Do the following:

- a. Demonstrate for your counselor the robot you built in requirement 4.
- b. Share your robot engineering notebook with your counselor. Talk about how well your robot accomplished the task, the improvements you would make in your next design, and what you learned about the design process.

How well your robot accomplished the task:

Improvements you would make:

What you learned:

6. **Competitions.** Do ONE of the following.

- a. Attend a robotics competition and report to your counselor what you saw and learned about the competition and how teams are organized and managed.

What you saw:

What you learned:

How teams are organized and managed.

- b. Learn about three youth robotics competitions. Tell your counselor about these, including the type of competition, time commitment, age of the participants, and how many teams are involved.

Competition 1:

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Type of competition:

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Time commitment:

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Age of the participants:

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How many teams are involved:

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Competition 2:

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Type of competition:

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Time commitment:

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Age of the participants:

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How many teams are involved:

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