

Angeles City Science High School
Electronics 10

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Section: 10-Hawking

What I Have Learned

Activity: Let's fix it!

Directions: Read the following situations and explain why the motor of the robot stopped working.

1. The robot is traveling at high speed on sandy soil under the hot Sun for 30 minutes.
The robot stopped because the temperature is too high that the motor overheated. It's also travelling at high speed for 30 minutes and perhaps it ran out of battery.
2. The robot is crossing a bridge when it got wet due to rogue wave.
Due to water being present here, the motor got shocked and wires that connects the electricity from and to the motor are not working anymore.
3. The robot is working on a live power line when suddenly it broke and came in contact with the metal part of the robot.
The electricity is supposed to travel through wires but since it broke, it was conducted and is flowing through the metals instead, which is a major component in robots.