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MEXE 3201

ACTIVITY#1 Sensors Properties and Use Cases

Direction: Please write the problem on a long bond paper, provide your answers, and then upload it to Google Classroom.

Feel free to follow these steps to complete your task!

1. Research for the common sensors used in manufacturing, IoT (Internet of Things), Household and Health Care.
2. Pick at least 5 sensors and identify its properties /classification (please refer to the example table below).

Sensors	Detection means used	Conversion phenomena	Sensor material
MQ Series Gas Sensors	Chemical reaction mechanism	Interaction between the target gas and the sensing material	Metal oxide semiconductor
Thermocouples	Temperature	Voltage	Metals or alloys
Microphones	Air pressure	Sound waves into electrical signals	Diaphragm
Security Cameras	Electromagnetic radiation	Electrical signals	Silicon-based semiconductors
Photoplethysmography (PPG) Sensors	Light absorption or reflection	Electrical signal	Light-emitting diodes (LEDs)

