**Lab - Imagine a New Intelligent Sensor**

**Objectives**

Imagine devices that are currently inanimate objects that could be useful if sensors were added to them.

**Background / Scenario**

Many devices have sensors in them that affect the operation of processes, or generate data to assist governments and businesses. Use your imagination to think of devices that could be made more useful if they contained intelligent sensors.

**Instructions**

Think about your day in your home, school, or office. Are there any objects that you think could provide useful information to you or to others if they were equipped with sensors? As an example, if the toilet roll holder in your home had sensors to detect weight, it could turn red and beep when it needed a new roll.

Choose an ordinary object that could provide useful information from sensors.

1. Describe the object that you selected.

*All-purpose trainers. Modular pod which attaches to trainer sides*

2. What kind of data would sensors in this object gather?

*Step positioning*

*Distance measured*

*Velocity/ Speed*

*Airflow*

*Movement*

*Temperature*

*Heart rate*

3. How could the gathered data be useful and to whom would it be useful?

Be used to record and monitor daily walking activity

Notify if beings too sedentary

What to wear to keep cool, or stay warm depending on the season,