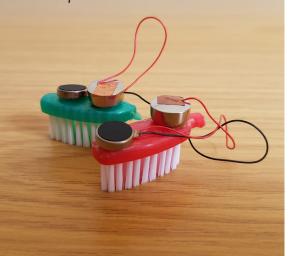


Is a robot alive?

Some non-living things also have this characteristic of living things,

Can you think of some examples?



Explore, Observe, Record

- 1. Make and record some observations to describe how the robot moves. Be ready to share your ideas.
- 2. Does the robot's movements remind you of anything else you've observed?

Biologists look for several more characteristics to decide if something is alive: They expect to observe: Growth, Sensing and responding to the environment, Nutrition (taking in food to support life) Excretion (getting rid of waste), Reproduction and Respiration.

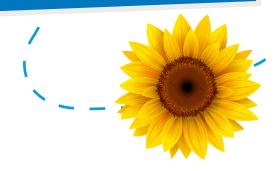
3. Observe the robot again — is the robot alive? Can you explain your conclusion by talking about the characteristics of living things?





What does it mean to be

We can't answer this question with science alone - we will need science AND religion, AND other ways of knowing!



Science helps us understand the characteristics that ALL living things share.

Religion can help us understand the purpose or meaning for each life.

We ask Big Questions when we wonder what it is like to be a person. Science can help to answer smaller questions, but we need other ways of knowing to understands what this means for our community.

The characteristics for life identified with Biology (MRS GREN) help us to identify living things. But these can look very different when observing a sunflower and a dog. Could some of these be found in non-living thinas?.

Is it enough for a robot to ACT like us, or does it also need to UNDERSTAND its actions?

Is "how much freedom you have" a good criteria for whether you are a "person"?



Thinking, making choices, and having freedom can be seen as important aspects of being alive (for humans and other animals).

INVESTIGATING

Policy makers in the EU thought that autonomy (making choices independently) was the key factor in when to call robots with artificial intelligence "electronic people":

Many religions teach that humans have free will, and are therefore responsible 🔰 for their choices.