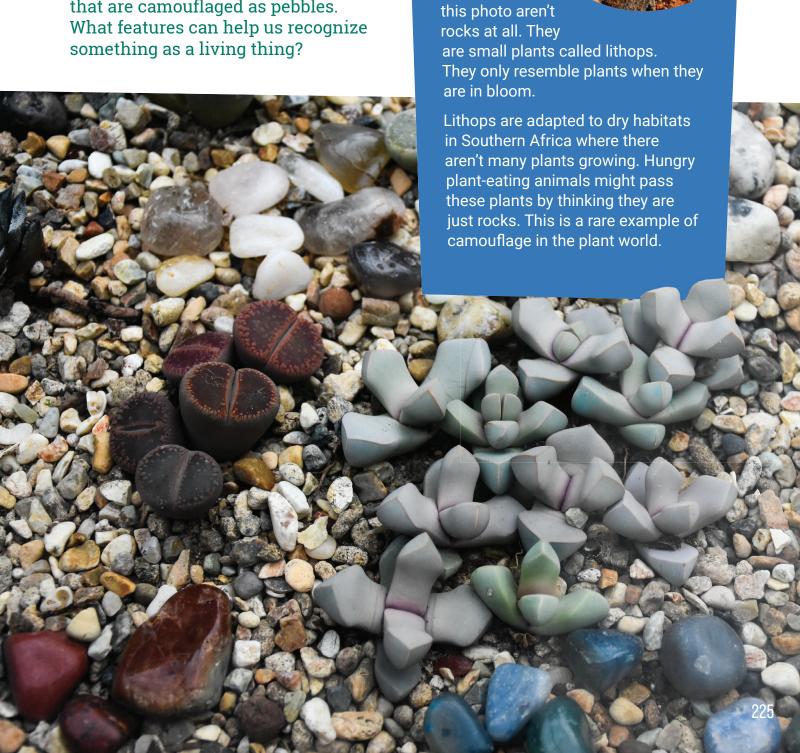
Some of

the rocks in

CHAPTER 12: LIVING THINGS

At first glance, this photo doesn't appear to have any living things in it, just rocks. However, if you look closely, you might see some unusual plants that are camouflaged as pebbles. What features can help us recognize something as a living thing?







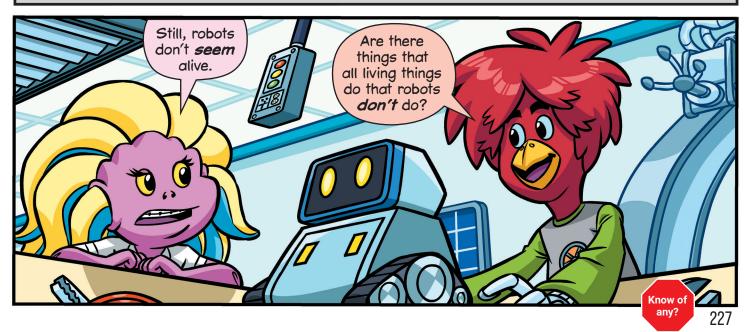


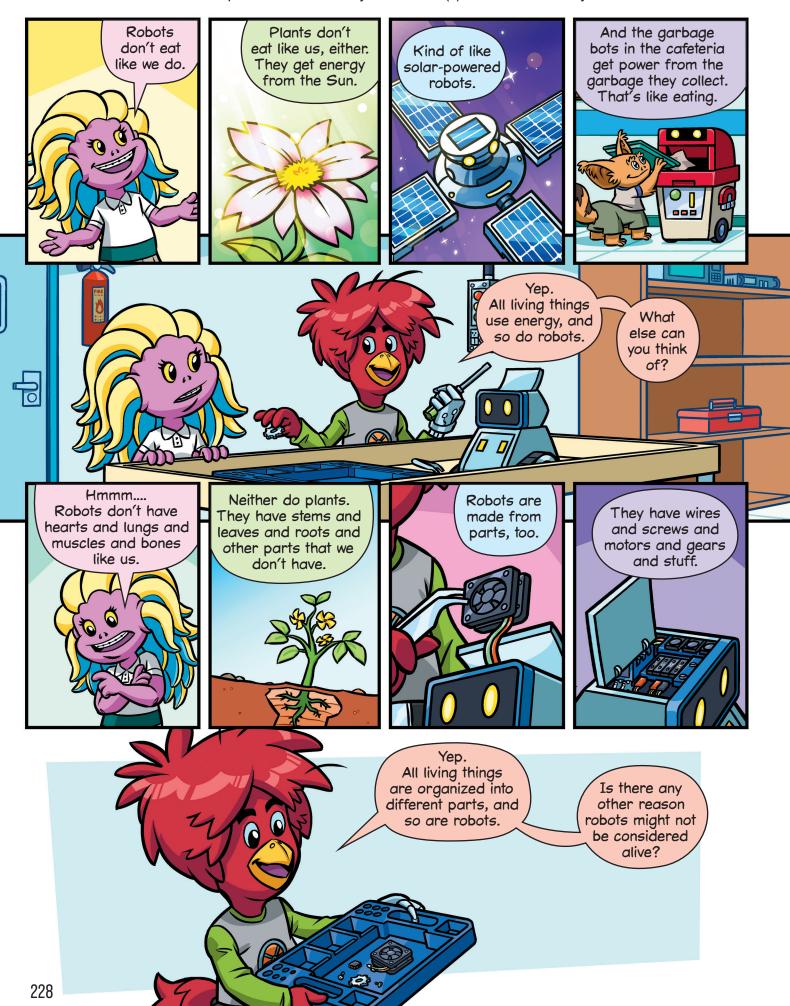


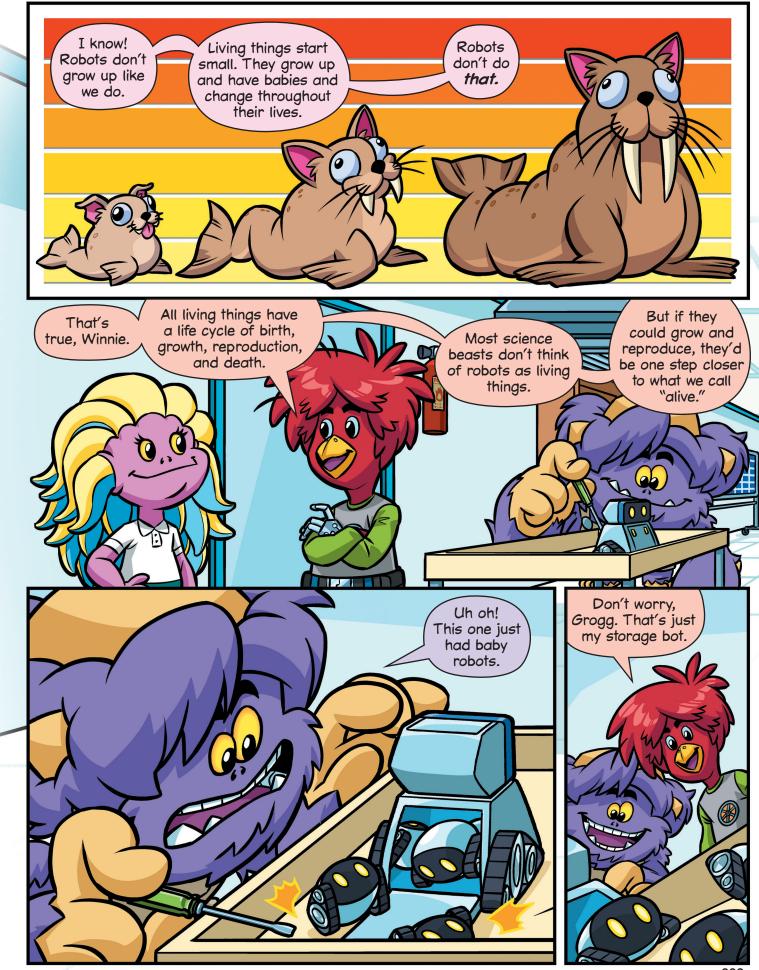




PLANTS CAN'T WANDER FROM PLACE TO PLACE, BUT THEY DO MOVE AND REACT TO THEIR SURROUNDINGS IN WAYS THAT NON-LIVING THINGS LIKE ROCKS CAN'T.







IT'S ALIVE!

All living things have some features in common. Living things must have all of the qualities below to be considered alive.



REACT

Living things react to changes in their environment.
Living things respond to changes in light, temperature, sounds, and more.



Living things grow and change over time. Living things grow when the cells they are made of become larger or when their number of cells increases.



USE ENERGY

Plants get
energy from
sunlight. They
can store this
energy for later use
in sugars and starches.
Animals get energy by eating
plants, or by eating animals that
have eaten plants.

REPRODUCE

Living things make offspring that are similar in appearance and behavior to themselves.





HAS PARTS

Living things have bodies that are organized into parts. Each part has a job to do.



Tomato plants and icicles both change over time. Check one or more abilities that a plant and an icicle both have, then circle the living thing.



An automatic sink can sense your hands and turn on. A sunflower senses sunlight and turns toward it. Check one or more abilities that an automatic sink and a sunflower both have, then circle the living thing.



A giraffe eats leaves. If you've been camping, you might have helped "feed" a fire. Check one or more abilities that a giraffe and a campfire both have, then circle the living thing.



DISCUSSION:

Do you think a robot could ever be considered alive? Explain.