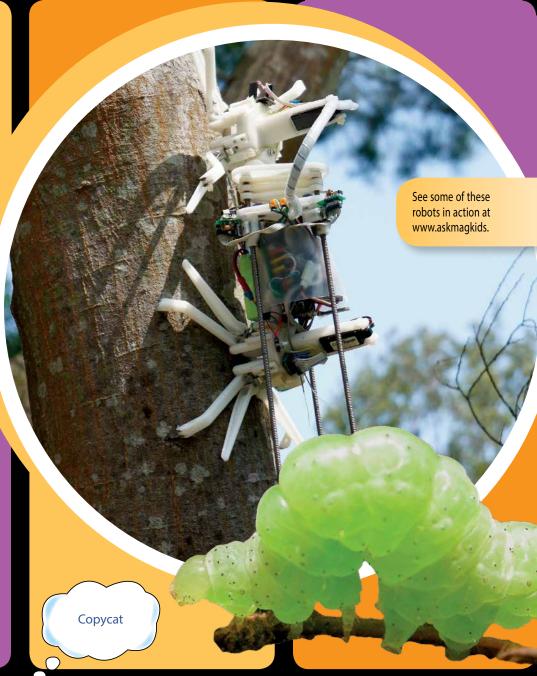


Robot Inchworm Treebot imitates the motion of an inchworm as it climbs up the trunks of trees, first feeling around for the best hold, then using its multiple arms to grab tight in just the right place.

I smell a robot!

Robot Rat
Taking its
cue from animal whiskers,
Scratchbot uses long, sensitive
feelers to detect nearby
objects and sense motion by
the air currents they stir up.
Many robots rely on sonar
or bouncing lasers to detect





Robot Gecko

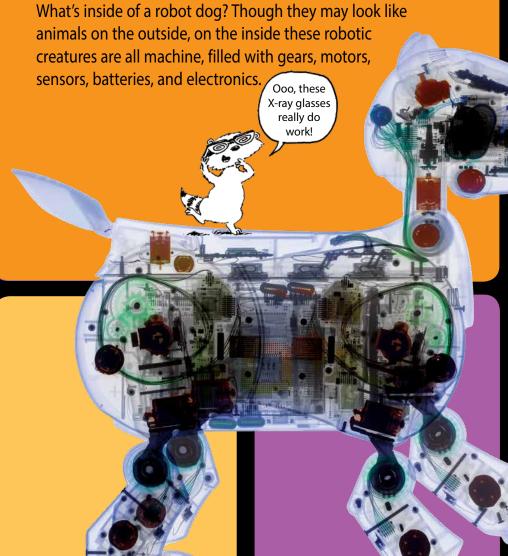
What can climb walls better than Spider-Man? A gecko—and now, the gecko-inspired Stickybot. This robot uses a silicon imitation of the fine, clingy hairs on geckos' feet to climb straight up smooth surfaces such as glass. Other climbing robots use pads covered with tiny hooks to



Robot Hummingbird
If you hear a metallic
buzzing nearby, it might
just be a robot spy. This tiny
surveillance bot imitates
the flying style of a
hummingbird to
locate a target
and then hover
in place while

Robot Sandfish
Small robots are often used to scout out dangerous places such as mines and collapsed buildings.

This robot imitates
the sandfish lizard's
wedge-shaped head
and undulating body
motion to "swim"
through dirt and rubble.
Someday it might even









Robot Lobster
When robot designers wanted to build a robot that could keep its footing on rocky seafloors and river bottoms, they modeled it on the surefooted lobster. Sensors instead of claws let RoboLobster

