

> Cilia surround a paramecium, magnified 100 times.
shaped like a funnel-and let the bacteria swim to you. You then beat your cilialined gullet. This movement helps suck the bacteria in, just like a wave carries a surfer to shore. The bacteria go down into your food vacuole (VAK yoo ohl), the cavity where your food is stored and digested. You'll take the nourishment you need and excrete the rest. Most bacteria are 1 micrometer wide, smaller than paramecia, which are 0.03 millimeters. There are plenty of exceptions to the rule, though.

## Danger Ahead

Now something approaches you. It's another protist, one known as a didinium (die DIN ee um). These protists are maybe half your size, but they're dangerous. They aren't always satisfied eating decaying plant material, and this one wants you. Yikes! Sensing trouble, you flex your body and shoot little arrow-shaped threads from your sides at the didinium. Uh-oh. This was a wrong move. The threads might work as weapons with certain enemies, but a didinium has more strength than you.

The didinium swims closer and shoots out threads of its own, like yours $\ldots$ only poisonous. When they strike, they paralyze. All the didinium needs to do now is open its gullet wide and, and ... swallow you whole! Ohhhh!
As you slide down the hatch, you think to yourself: Good thing this is only virtual reality!

## Activity

WATCH 'EM SWIM Obtain permission from adults and invite a friend to join you on a protist hunt. Find a pond or other slow-moving body of water. Over the course of several days look closely for signs of protists. Draw and write your observations of the area around the water. Note any indications that protists might be present. Collect some water in a small container and take it to school. Look at a few drops under the microscope. What do you observe? If you see protists, record what they look like and how they move. Repeat the process with different water samples. Write down any similarities and differences.

