

"WHY I MAKE ROBOTS THE SIZE OF A GRAIN OF RICE"

1. Read the following statements and choose the number that you think make the statements true. Then watch the talk and check

1. Micro-robots can jump (10/100/1,000) times higher than their size.
2. Some micro-robots weigh only (3/30/300) milligrams.

SARAH BERGBREITER Micro-roboticist

Sarah Bergbreiter is an engineer who uses advanced technology to design tiny robots—micro-robots—that can run, roll, and jump high into the air. Many are only a few millimeters long.

Bergbreiter's idea worth spreading is that robots the size of insects may have widespread and very useful applications.

2. These sentences below will help you learn the words in the Ted Talk. Read them, guess the meanings and we will check them in class.

- a. The robots used electricity that is **stored** in small batteries.
- b. You need to use **rigid** building material. If you use something soft, the structure cannot stand.
- c. We need to **inspect** every part of the machine to make sure it is safe to operate.
- d. Adding more legs improved the robot's **mobility**. It can now move faster and more easily.
- e. We made a model of the robot on a small **scale** before we started building the full-size version.
- f. The robot has a **mechanism** that makes it jump really high.
- g. When the robot's main light switched on, it gave off a **flash** of light.
- h. Ants have the **capability** of carrying something that weighs more than they do.
- i. If you put too many heavy things on one side of the cart, it will **tip over**.
- j. The machine is very **robust**. It works even in difficult conditions.