

"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.*

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