

At 2,200 meters, the Humber Bridge is one of the _____ suspension bridges in the world. It's an engineering masterpiece. But up here, hidden among the concrete and the _____, is an engineering miracle, the spider's web. Unchanged in over 100 million years, it's one of nature's most _____ designs. Researchers the world over are trying to discover its microscopic secrets. To study _____, first you have to catch one. We now have our spider.

Let's take a closer _____ at the thread. This spider can produce over 700 metres of _____ in one continuous thread. Each spider can produce several different types of silk, from sticky sheets to an incredibly strong single thread. If this thread were as thick as a _____, it could pull an ocean liner. The secret of the web lies in the water droplets at every junction. _____ each droplet, strands of web are tightly curled.

These strands unravel, allowing the web to stretch without _____. We've already learned from some of the spider's tricks. Now we are using the microscopic secrets of the _____ world to design completely new man-made structures.

Choose the correct answer to the questions:

1. What is special about the spider's web?
 - A. It is made of metal
 - B. It has remained unchanged for over 100 million years
 - C. It is located on the Humber Bridge
 - D. It can pull an ocean liner

2. How much silk can this spider produce in one continuous thread?
 - A. 100 meters

B. 500 meters

C. Over 700 meters

D. 1000 meters

3. What makes the spider's web unique?

A. Its color

B. Water droplets at each junction

C. Its location

D. Its size

4. What can researchers learn from the spider's web?

A. How to build bridges

B. How to design new man-made structures

C. How to catch spiders

D. How to measure silk

5. What happens to the web strands inside the water droplets?

A. They break

B. They become sticky

C. They are tightly curled

D. They disappear

6. What comparison is made about the spider's thread strength?

A. It can lift a car

B. It can pull an ocean liner if as thick as a pencil

C. It can support a house

D. It can hold a person's weight

7. What types of silk can this spider produce?

- A. Only sticky silk
- B. Only strong threads
- C. Sticky sheets and strong single threads
- D. Metal threads