

Introduction to Nanotechnology

Science · Practice Test · 8 Questions

1. What does the prefix 'nano' mean when referring to nanotechnology?

- A) Billionth
- B) Millionth
- C) Thousandth
- D) Hundredth

2. Nanotechnology deals with materials and structures at what scale?

- A) 1 to 100 nanometres
- B) 1 to 100 micrometres
- C) 1 to 100 millimetres
- D) 1 to 100 metres

3. Which of these is a common everyday product that uses nanotechnology?

- A) Sunscreen
- B) Wooden pencils
- C) Cotton t-shirts
- D) Plastic bottles

4. What is one way nanotechnology is being used in medicine?

- A) Delivering drugs to specific cells
- B) Making larger bones
- C) Increasing blood volume
- D) Repairing damaged skin cells instantly

5. What is a nanometre (nm) approximately the size of?

- A) A strand of DNA
- B) A grain of sand
- C) A human hair
- D) A small ant

6. Why are materials sometimes stronger or have different properties when they are at the nanoscale?

- A) More of their atoms are on the surface
- B) They become heavier
- C) They are easier to melt
- D) They conduct electricity better

7. Which of the following is a potential application of nanotechnology in electronics?

- A) Smaller and faster computer chips
- B) Larger screens for TVs
- C) Batteries that last for 100 years
- D) Wireless charging for all devices

8. What does 'self-assembly' mean in the context of nanotechnology?

- A) Nanoparticles joining together on their own
- B) Tiny robots building structures
- C) Humans manually arranging nanoparticles
- D) Materials changing colour by themselves