

# Introduction to Nanotechnology

Science · Answer Key · 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