Nanotechnology Wonders

Nanotechnology · Answer Key · 8 Questions

1. What is the standard metric unit prefix used to define the scale of nanotechnology, representing one billionth of a meter?

A) Micro
B) Milli
C) Nano
D) Pico

2. Which famous physicist is widely credited with inspiring the field of nanotechnology during his 1959 speech titled 'There's Plenty of Room at the Bottom'?

A) Albert Einstein
B) Richard Feynman
C) Nikola Tesla
D) Isaac Newton

3. What is the name of the carbon-based structure, discovered in 1985, that is shaped like a hollow sphere and named after architect Buckminster Fuller?

A) Graphene
B) Fullerene
C) Nanotube
D) Diamond

4. Which specialized microscope, invented in 1981, allows scientists to image and manipulate individual atoms on a surface?

A) Scanning Tunneling Microscope
B) Optical Microscope
C) Electron Microscope
D) Fluorescence Microscope

5. Nanotechnology is used in modern sunscreen to make it appear clear rather than white. Which material is commonly used for this purpose?

A) Zinc Oxide
B) Titanium Dioxide
C) Silicon Dioxide
D) Silver Chloride

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6. What unique property of gold changes when it is reduced to the nanoscale, causing it to appear red or purple instead of its traditional yellow colour?

A) Magnetic resonance

B) Surface plasmon resonance

C) Electrical conductivity

D) Thermal expansion

7. Which thin, single-layer sheet of carbon atoms is considered one of the strongest materials ever tested and is highly conductive?

A) Graphene

B) Fullerene

C) Nanofiber

D) Aerogel

8. What is the 'Lotus Effect' in nanotechnology, which is inspired by the plant's ability to keep its leaves clean?

A) Superhydrophobicity

B) Photosynthesis

C) Bioluminescence

D) Cryogenics

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