

# Milestones in Materials Science

Materials Science · Practice Test · 8 Questions

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**1. Which material, discovered by Charles Goodyear in 1839 through the heating of rubber with sulfur, revolutionized the industrial utility of polymers?**

- A) Neoprene
- B) Vulcanized rubber
- C) Bakelite
- D) Celluloid

**2. In 1909, Leo Baekeland created the first fully synthetic plastic, which was named after him. What is this material?**

- A) Polystyrene
- B) Nylon
- C) Bakelite
- D) Polyethylene

**3. Who is credited with the 1935 invention of Nylon, the first commercially successful synthetic polymer fiber?**

- A) Wallace Carothers
- B) Stephanie Kwolek
- C) Percy Julian
- D) Charles Hall

**4. What is the name of the high-strength synthetic fiber invented by Stephanie Kwolek in 1965, widely known for its use in bulletproof vests?**

- A) Dacron
- B) Kevlar
- C) Rayon
- D) Spandex

**5. In 1985, a new form of carbon was discovered consisting of 60 carbon atoms arranged in a sphere, earning the researchers a Nobel Prize. What is this molecule called?**

- A) Graphene
- B) Carbon nanotube
- C) Buckminsterfullerene
- D) Diamond

**6. Which metallurgical process, patented by Henry Bessemer in 1856, was the first inexpensive industrial process for the mass production of steel?**

- A) Basic oxygen process
- B) Open-hearth furnace
- C) Bessemer process
- D) Electric arc furnace

**7. In 1825, Hans Christian Ørsted was the first to isolate which metallic element, now essential for aerospace due to its lightweight and corrosion-resistant properties?**

- A) Titanium
- B) Aluminum
- C) Magnesium
- D) Beryllium

**8. What was the first commercially successful semiconductor material used to create the point-contact transistor in 1947?**

- A) Silicon
- B) Gallium arsenide
- C) Germanium
- D) Cadmium telluride