Periodic Table Challenge

1. 1. One of the uses of boron is in nuclear power plants to absorb neutrons. What happens when boron absorbs a neutron?

Scored 1 of 1 point

* 1. Boron emits a beta-particle and nitrogen atom is produced
  2. After a while the neutron is released again with a lower energy
  3. **Boron emits an alpha-particle and lithium atom is produced***Your answer*
  4. Carbon isotope is produced

1. 2. What made cadmium popular when it was discovered in the early 1800s?

Scored 1 of 1 point

* 1. Cadmium was used to make the Eiffel tower
  2. Cadmium was the lightest known metal
  3. Cadmium had the lowest melting point of any known metal
  4. **Cadmium offered rich yellow colors to painters***Your answer*

1. 3. Flerovium is special for the Periodic Table. Which one of these statements about flerovium is not true?

Scored 1 of 1 point

* 1. Flerovium is the heaviest element whose chemistry has been studied
  2. **Isotopes of flerovium are stable for several days***Your answer*
  3. Flerovium is near the island of stability
  4. Flerovium reveals the relativistic effects of heavy elements

1. 4. The 1992 Nirvana song ‘Lithium’ describes a person who suffers from a condition treated with this element. Which condition is it?

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* 1. Constipation
  2. **Depression***Your answer*
  3. Hallucination
  4. Palpitations

1. 5. Which one of these statements about titanium is incorrect?

Scored 1 of 1 point

* 1. **Titanium is less dense and stronger than aluminium***Your answer*
  2. Titanium is the strongest metal per weight
  3. Titanium does not dissolve in mineral acids
  4. Titanium is biocompatible and therefore used in implants