



## MEP KS3 STEM Quiz

## **ROUND ONE: Name That Scientist**

- 1. Stephen Hawking – He was the famous theoretical physicist and cosmologist who predicted that black holes emit radiation.**
- 2. Marie Curie – She was a famous Chemist who carried out groundbreaking research on radiography and the first woman to win the Nobel prize.**
- 3. Albert Einstein – He was a very famous theoretical physicist and he developed the theory of relativity and wrote about the philosophy of science.**
- 4. Sir David Attenborough – The famous natural historian most well known for presenting nature documentaries such as Blue Planet**
- 5. Professor Brian Cox – The world famous physicist, known for work with the Large Hadron Collider and presenting scientific programs on TV.**

## ROUND TWO: The Human Body

1. **Over 200!** At birth humans have around 270 bones, but this decreases and by adulthood we normally have around 206 bones.
2. **Bone Marrow!** Our Red blood cells, most of our white blood cells, and our platelets are all produced in the bone marrow. Some white blood cells are also produced in other parts of the body.
3. **During anaerobic respiration.** During anaerobic respiration glucose breaks down without oxygen, producing lactic acid, and sometimes causing muscle cramps.
4. **In the Liver.** Bile is a dark green to yellowish brown liquid that helps with digestion. bile is produced by the liver and stored in the gallbladder.
5. **46.** In humans, each cell normally contains 23 pairs of chromosomes.

## ROUND THREE: Who Invented that?

1. **Lightbulb – Thomas Edison!** He first demonstrated the lightbulb publically in December 1879.
2. **Telephone – Alexander Graham Bell.** He patented the telephone in 1876 and founded the American telephone and telegraph company in 1885.
3. **World Wide Web – Sir Tim Berners Lee** invented the WWW in 1989.
4. **Antibiotics – Alexander Fleming** discovered penicillin in 1928.
5. **Bagless Vacuum Cleaner – James Dyson** started making prototypes in 1978 and released the first design 5 years later.
6. **Aircraft – The Wright Brothers** made the first sustained manned flight of 4 miles in December 1903.
7. **I-phone – Steve Jobs.** He worked fro Apple Computers in 1976 and released the first i-phone in 2007.

## **ROUND FOUR: Space**

**1. The Milky Way**

**2. 8 minutes and 20s.**

**3. The Moon.**

**4. 23.5 degrees.**

**5. Mercury & Venus.**

## ROUND FIVE: TRUE OR FALSE

1. **False.** Hydrogen is the first element in the periodic table, helium is the second.
2. **True.**
3. **True.** Some estimates say that more than 20% of our oxygen is produced by the amazon rainforest.
4. **True!** All the planets in our solar system rotate counter-clockwise on their axis except for Venus and Uranus. Venus rotates clockwise and Uranus rolls on its side as it orbits the sun.
5. **True.** Unlike most liquids, water does expand when it freezes.