

**Junior STEM Quiz 1**  
**Age range 6 – 10**

# Junior STEM Quiz 1

This quiz can be played in teams or individually, and is suitable for ages 6 to 10  
There are five rounds to the quiz:

## Round 1: Invention and Discovery

Questions about life changing inventions and discoveries

## Round 2: Physics and Space

Questions about forces, motion, energy and space

## Round 3: Engineering

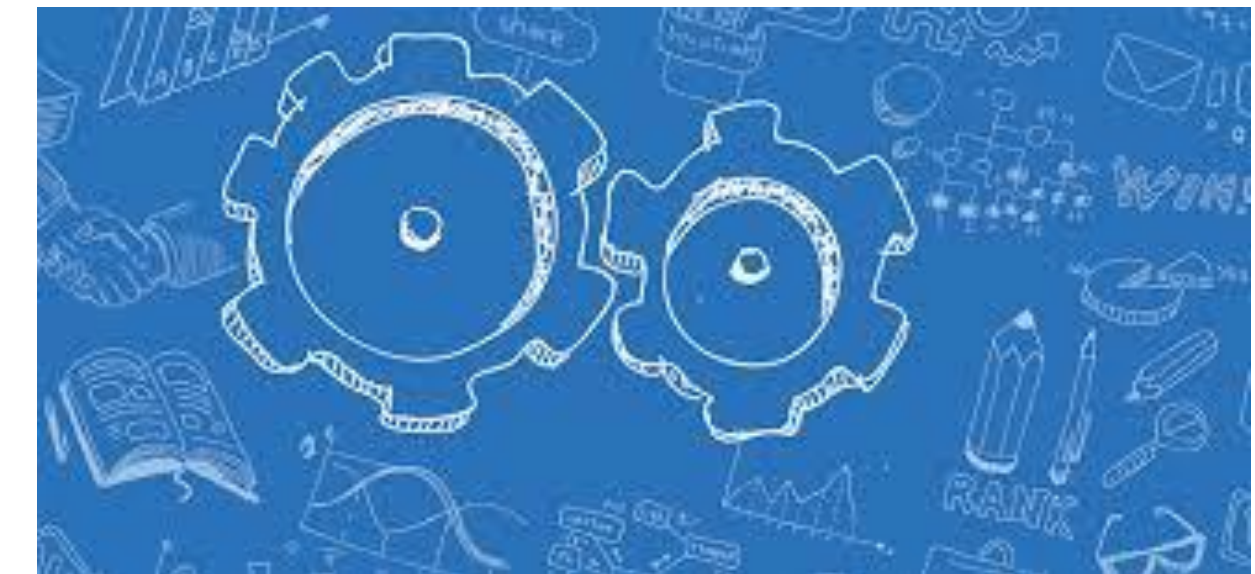
Questions about famous feats of engineering and the way things work

## Round 4: Chemistry

Questions about materials, changes and chemicals

## Round 5: Biology

Questions about living things



# Round 1: Invention and Discovery

1) Which 19th Century invention is used by doctors to check for broken bones?

- A Stethoscope
- B X-Ray machine
- C Microscope
- D Thermometer

2) Which 1970's invention is used by people across the world to send messages to each other using the internet?

- A Telegram
- B Text message
- C E-mail
- D Letter

## Round 1: Invention and Discovery

3) In 1875, Alexander Graham Bell invented a device that could send a person's voice down a wire to a receiver on the other end. What was this invention?

- A Telephone
- B Mobile phone
- C Radio
- D Television

4) Which was invented first?

- A Computer
- B Typewriter
- C Laptop
- D iPad

## Round 1: Invention and Discovery

5 ) In 1903, the Wright brothers tested a machine that carried a man into the air, flew 120 feet and landed 12 seconds after take-off. Which mode of transport were they testing?

- A Spaceship
- B Train
- C Motor Car
- C Aeroplane

## Round 2: Physics and Space

1) Complete the sentence: The Sun is a source of....

- A Heat
- B Light
- C Energy
- D All of the above

2) There is a story which says that whilst lying against a tree in an orchard, the scientist Isaac Newton was hit on the head by a falling apple. What is the name of the force that made the apple fall?

- A Friction
- B Magnetism
- C Gravity
- D Air Resistance

## Round 2: Physics and Space

3) What takes about 27 days to orbit the earth?

- A The Moon
- B The Sun
- C Jupiter
- D Pluto

4) Which planet is also known as the 'Red Planet'?

- A Venus
- B Saturn
- C Neptune
- D Mars

## Round 2: Physics and Space

5) If an object is see through it is called...

- A      Transparent
- B      Translucent
- C      Opaque
- D      Reflective



## Round 3: Engineering

1) Why is steel a good material use when building tall buildings?

- A It is pretty
- B It is light
- C It is strong
- D It is expensive

2) In which country is the Empire State building found?

- A England
- B France
- C United States of America
- D Egypt

## Round 3: Engineering

3) Some Environmental Engineers design products that generate electricity through renewable energy sources. A solar panel generates electricity by using light from which source?

- A The sun
- B The wind
- C The sea
- D The earth

4) Isambard Kingdom Brunel is a famous British engineer who built bridges, ships, stations and tunnels in Victorian times. Which fictional bear, with a liking for marmalade sandwiches, is named after one of his creations?

- A Winnie-the-Pooh
- B Baloo
- C Rupert Bear
- D Paddington Bear

## Round 4: Chemistry

1) An ice cube is in which state?

- A Liquid
- B Solid
- C Gas
- D Plasma

2) Name a material that conducts electricity

- A Wood
- B Cotton wool
- C Copper
- D Ceramic tile

3) Can you name something that dissolves in water?

- A Sand
- B Sugar
- C Bouncy ball
- D Cork

## Round 4: Chemistry

4) What is the boiling point of water?

- A 1000 degrees centigrade
- B 100 degrees centigrade
- C 10 degrees centigrade
- D 1 degree centigrade

5) If you apply heat to chocolate, what will happen?

- A It will solidify
- B It will melt
- C It will evaporate
- D It will stay the same

## Round 5: Biology

1) Cows, sheep and horses are all examples of herbivores. What type of food wouldn't they eat?

- A Plants
- B Fruit
- C Leaves
- D Meat

2) Which organ pumps blood around the body?

- A The heart
- B The lungs
- C The liver
- D The kidneys

3) Which bird lays the largest eggs?

- A Chicken
- B Ostrich
- C Pheasant
- D Sparrow

## Round 5: Biology

4) Can you name an animal that is not a mammal?

- A Snake
- B Polar Bear
- C Pig
- D Dog

5) What does a caterpillar turn in to?

- A Bird
- B Butterfly
- C Bee
- D Fly

**End of quiz**