

# Great Inventions

# Reader

# Answer Key



## Page 49 – Activity 1

- 1 b
- 2 c
- 3 a

## Page 49 – Activity 2

- 1 book
- 2 lamp
- 3 car

## Page 50 – Activity 3

*Reader's own answers*

**Model answers**

- 1 In Europe and in ancient Sumer more than 5,000 years ago.
- 2 To travel a long way and move things.
- 3 They were not fun.
- 4 Spokes were much faster and much lighter.
- 5 They were better on rough ground.

## Page 50 – Activity 4

- 1 Today, wheels are **everywhere**—in our cars, our clocks, and our electric toothbrushes!
- 2 But, **amazingly**, sailboats and musical instruments were invented *before* the wheel.
- 3 Scientists say people didn't have the tools that they needed to make a wheel **before** this.

## Page 51 – Activity 5

Imagine a world before paper <sup>1</sup>**was** invented! People <sup>2</sup>**had to** write on big pieces of soft rock, wood, or <sup>3</sup>**shells**. Many years <sup>4</sup>**ago**, people in China began <sup>5</sup>**trying** to make paper. A man called Ts'ai Lun found the <sup>6</sup>**best** way of making the first <sup>7</sup>**real** paper. People in other parts of the world <sup>8</sup>**soon** began to copy <sup>9</sup>**Chinese** paper-making.

## Page 51 – Activity 6

- 1 True
- 2 False
- 3 Doesn't say
- 4 False

## Page 52 – Activity 7

*Reader's own answers*

**Model answers**

- 1 Who was the printing press invented by?
- 2 When was it invented?
- 3 How did it work?
- 4 Why was the printing press important?

## Page 52 – Activity 8

*Reader's own answers*

## Page 53 – Activity 9

*Reader's own answers*

**Model answers**

- 1 Doctors.
- 2 China.
- 3 Someone with a dangerous disease.
- 4 The body fights away the small amount of disease, so it then knows how to fight away the real disease, too.

## Page 53 – Activity 10

- 1 Edward Jenner was an English doctor. In 1796, he **tested** the vaccine idea with a disease called smallpox and **wrote** about it.
- 2 Because of his work, people in many countries **were given** vaccines for smallpox.
- 3 Before 1796, smallpox **killed** millions of people.
- 4 When Jenner's vaccine **was slowly introduced** all around the world, the disease **began** to disappear.

## Page 54 – Activity 11

*Reader's own answers***Model answers****Picture a:** The phones are small.**Picture b:** The phone is large.

## Page 54 – Activity 12

- 1 The first telephones had one part for your ear and another for your mouth.
- 2 To make a call, you had to connect the telephone lines. **To make a call, an operator had to connect the telephone lines.**
- 3 The computer can make an electric signal from the sound of a voice. **The telephone can make an electric signal from the sound of a voice.**

## Page 55 – Activity 13

**Audio script**

- 1 You can burn it and carry it around to see in the dark.
- 2 To join things together.
- 3 Giving a lot of light.
- 4 A kind of energy that provides heat, light etc.
- 5 A tall grass.

- 1 *candle*
- 2 *connect*
- 3 *bright*
- 4 *electricity*
- 5 *bamboo*

## Page 55 – Activity 14

People used candles for light.

Gas lights were used, but these were dangerous.

Thomas Edison invented the lightbulb.

Edison used hair from a beard to make a filament!

Edison used Japanese bamboo to burn as filaments in lightbulbs.

## Page 56 – Activity 15

- 1 d
- 2 a
- 3 c
- 4 b

## Page 56 – Activity 16

*Reader's own answers*

## Page 57 – Activity 17

*Reader's own answers***Model answers**

- 1 The first flight was very short.
- 2 The first flight was on December 17th, 1903.
- 3 The first flight was just 37 meters.
- 4 The first flight was at a beach in the USA.
- 5 Orville and Wilbur Wright flew the first flight.
- 6 They were in the air for 12 seconds.

## Page 57 – Activity 18

*Reader's own answers*

## Page 58 – Activity 19

*Reader's own answers*

## Page 58 – Activity 20

*Reader's own answers*

**Model answers**

- 1 My idea was to make a personal computer.
- 2 I started in the 1830s.
- 3 I was working with Charles Babbage.
- 4 We drew the plans for making a computer, but never built it.

## Page 59 – Activity 21

The internet is **used** to send information very fast between computers all around the world. It was first **used** in 1969, in the USA. Like the computer, it was **invented** by lots of different people. The internet that we **use** today—also called the World Wide Web—was **invented** by Tim Berners-Lee in 1990.

## Page 59 – Activity 22

*Reader's own answers*

## Page 60 – Activity 23

**Project**

*Reader's own answers*

## Page 61 – Activity 24

**Project**

*Reader's own answers*