

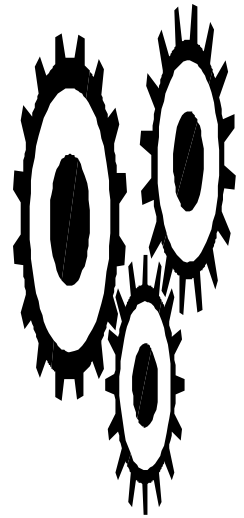


# Ingenious!

Y E A R S E V E N

## Interpreting Information.

Read the following information and answer the questions below.



## The History of Invention

From [www.cbc4kids.ca/general/the-lab/history-of-invention](http://www.cbc4kids.ca/general/the-lab/history-of-invention)

<b>Pottery</b> (7900 BC) 	One of the first inventions and artforms. The oldest known piece of pottery was found in China.	<b>Telephone</b> (1876 AD) 	Alexander Graham Bell studied sound vibrations and how they could be transmitted from one place to another by wires.
<b>Wheel</b> (3200-3500 BC) 	The wheel's inventor is unknown though it has certainly changed our lives forever.	<b>Recorded Sound</b> (1877 AD) 	Thomas Edison invented the phonograph, a device that recorded and reproduced sound. The words of 'Mary Had a Little
<b>Abacus</b> (1200 AD) 	First appearing in China, the abacus is a counting tool seen as a precursor to the calculator and the computer.	<b>Lightbulb</b> (1879 AD) 	Another of Edison's pioneering inventions.
<b>Printing Press</b> (1450s AD) 	Invented by Johannes Gutenberg, a machine that automated the process of creating books. Before that, books had to be	<b>Assembly Line</b> (1908 AD) 	Henry T Ford introduced a cheap, efficient production method which allowed him to produce cars more quickly.
<b>Microscope</b> (1674 AD) 	Dutch scientist Antoine Van Leeuwenhoek developed the prototype of the first multiple lens microscope.	<b>Television</b> (1927 AD) 	Philo Farnsworth is credited with the invention of television though at the time it didn't have sound. Colour TV began in 1966.
<b>Steam Engine</b> (1803 AD) 	Many inventors developed and refined the steam engine, including James Watt. The first steam engine to travel on a railway	<b>Internet</b> (1973 AD) 	Originally set up by the US Defence Department as a way of linking up its computer facilities.
<b>Camera</b> (1827 AD) 	Joseph Niepce from France was the first to find a way of recording an image permanently by photograph.	<b>Compact Disc</b> (1980) 	Electronics company Philips invented CD technology which has impacted on music, computers (CD-ROM) and entertainment

- Where was the oldest piece of pottery found? \_\_\_\_\_
- What was the name of the first steam engine to travel along a railway? \_\_\_\_\_
- Name 2 of Thomas Edison's inventions. \_\_\_\_\_
- About how long ago was the wheel invented? (Be Careful!) \_\_\_\_\_
- For what purpose was the Internet created? \_\_\_\_\_
- In developing the first telephone, what did Alexander Graham Bell discover? \_\_\_\_\_

<b>P</b>	<b>E</b>	<b>T</b>
<b>E</b>	<b>H</b>	<b>L</b>
<b>N</b>	<b>O</b>	<b>E</b>

Make as many words as you can from these letters. The 9-letter mystery word is an invention that has had a huge impact on modern society.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Word Sort.** Sort these words into their correct groups. Three have been done for you.

wire electricity wood  
 Bell wheel steel  
 abacus Ford microscope  
 Watt computer Edison  
 nails Da Vinci pliers

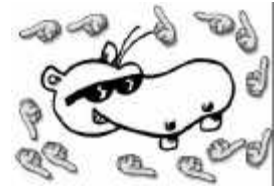
wood
_____
_____
_____
_____

Ford
_____
_____
_____
_____

abacus
_____
_____
_____
_____

**Base Words.** Using these words as base words, come up with as many built-up words as you can.

- electric \_\_\_\_\_
- invent \_\_\_\_\_
- develop \_\_\_\_\_
- produce \_\_\_\_\_



**Addition.** Set these sums out correctly on a neat page and solve.

1. \$356.52 + \$296.78
2. \$1748.08 + \$3959.99
3. 664.9 + 435.85
4. \$2509 + \$367.61 + \$4516.23
5. 10 480.06 + 6593.2 + 11 519.75
6. 6.164 + 0.9 + 85.998
7. 812.409 + 751.99 + 12 432.688
8. 56.8 + 328.95 + 4.884 + 96.943

**BC / AD?**

This year is 2000 AD. What does AD stand for?

What does BC stand for?

If these dates are all BC, work out how many years have passed from today.

- 650 BC \_\_\_\_\_
- 895 BC \_\_\_\_\_
- 1655 BC \_\_\_\_\_
- 6880 BC \_\_\_\_\_
- 7900 BC \_\_\_\_\_

**Work It Out!**



1.  $68.9 \times 100 =$  \_\_\_\_\_
2.  $5.64 \div 100 =$  \_\_\_\_\_
3.  $1/3$  of 45 = \_\_\_\_\_
4.  $5 - 2.6 =$  \_\_\_\_\_
5. \_\_\_\_\_  $\times 6 = 54$
6.  $700 \times 8000 =$  \_\_\_\_\_
7. Cost of 9 pens @ 50c each = \_\_\_\_\_
8. Days in 12 weeks = \_\_\_\_\_
9.  $(8 \times 5) - (5 \times 5) =$  \_\_\_\_\_
10.  $6 \times 3 + 6 \div 6 \times 9 =$  \_\_\_\_\_

**Web Links.** For more info about inventing, check out:  
[www.edisonkids.com](http://www.edisonkids.com)  
[www.invent.org](http://www.invent.org)  
[www.nationalgeographic.com/features/96/inventions](http://www.nationalgeographic.com/features/96/inventions)

**Design.**

Come up with an invention that deals with 21st Century needs and issues such as:

- Pollution
- Health & recreation
- Traffic
- Feral animals
- Clean energy sources
- Poor countries
- Weather protection

Present your invention creatively. You may decide to improve an already existing invention.

**Eugene's Challenge.**

"Leonardo da Vinci was a master of both art and science. He was a painter, sculptor, architect, musician, engineer, inventor and scientist."



Prepare a mini-project on Leonardo da Vinci, including a focus on his inventions. Discover why Leonardo is referred to as a 'Renaissance Man'.

**Leonardo Links:**

[www.mos.org/leonardo](http://www.mos.org/leonardo)  
<http://library.thinkquest.org/3044>

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