Ancient Chinese Inventions

Ancient China held leading positions in many fields in studying nature in the world. Besides the four great inventions – papermaking, printing, gunpowder and the compass, Ancient China contributed countless other inventions to the world, how many other creations do you know?

Below is a list of inventions created by ancient Chinese and some may surprise you!

Paper Making 105 A.C

The invention of paper greatly affects human history. Paper already existed in China since 105 A.C, however, Cai Lun (ca. 50 AD – 121) made significant innovation and helped drive its widespread adoption. His advanced paper-making technology then spread to central Asia and the world through the Silk Road.

For more information:

Movable Type Printing 960-1279 AD

Woodblock printing was already a widely used technique in the Tang Dynasty. However, this kind of printing tech was expensive and time-consuming. Until the Song Dynasty (960-1279), a man named Bi Sheng (990–1051) invented movable type printing, making it quicker and easier. He first carved individual characters on pieces of clay and then harden them with fire. These movable type pieces were later glued to an iron plate to print a page and then broken up and redistributed for another page. This kind of printing tech rapidly spread across Europe, leading up to the Renaissance, and later all around the world.

For more information:
https://www.computersmiths.com/chineseinvention/movtype.htm
Gunpowder 1000 A.D.

Gunpowder was invented by Chinese Taoist alchemists about 1000 A.D. when they tried to find a potion to gain human immortality by mixing elemental sulfur, charcoal, and saltpeter. It is generally believed that gunpowder spread to Europe during the Mongol expansion of 1200-1300 A.D.. The interesting fact is that Chinese used this discovery mainly for firecrackers while Europeans created cannons and guns and dominated China in the mid-1800s.

For more information:

https://www.thoughtco.com/invention-of-gunpowder-195160


https://quatr.us/china/gunpowder-ancient-china.htm

Compass 1100 A.D.

A compass is a navigational instrument that shows directions. The compass was invented by Chinese between the 2nd century BC and 1st century AD. It was first used in Feng Shui, the layout of buildings. By 1000 AD, navigational compasses were commonly used on Chinese ships, enabling them to navigate. Arab traders sailing to China might learned of the technology and brought it to the West.

For more information:

https://www.smith.edu/hsc/museum/ancient_inventions/compass2.html


http://www.computersmiths.com/chineseinvention/compass.htm
Mechanical Clock 725 A.D.

The world’s first mechanical clock – Water-driven Spherical Birds – was invented by Yi Xing, a Buddhist monk in 725 A.D.. It was operated by dripping water which powered a wheel that made one revolution in 24 hours. Hundreds of years later, the inventor Su Song developed a more sophisticated clock called the Cosmic Empire in 1092, 200 years earlier before the mechanical clock was created in Europe.

For more information:

Silk 6,000 years ago

Silk, one of the oldest fibers, originated in China as early as 6,000 years ago. The earliest evidence of silk was discovered at the now Yangshao culture site in Xiaxian County, Shanxi Province, China where a silk cocoon was found cut in half, dating back to between 4000 and 3000 years ago.

Silk was a soft and light material much desired by the wealthy throughout the world. It became such a valuable export that the trade route running from Europe to China became known as the Silk Road. The Chinese learned how to make silk from the cocoons of silkworms. They managed to keep the process for making silk a secret for hundreds of years.

Chinese people mastered sophisticated silk weaving tech and closely guarded secret, and the West had to pay gold of the same weight for the silks. In ancient times the silk was a very important item made in China and for many centuries businessmen transported this precious item from China to the West, forming the famous Silk Road.

For more information:
https://www.ducksters.com/history/china/legend_of_silk.php
https://www.ancient.eu/Silk/
**Umbrella 1,700 years ago**

The inventions of umbrella can be traced back as early as 3500 years ago in China. Legend has it, Lu Ban, a Chinese carpenter and inventor created the first umbrella. Inspired by children using lotus leaves as rain shelter, he created umbrella by making a flexible framework covered by a cloth.

For more information:

- http://www.umbrellahistory.net/umbrella-history/history-of-umbrella/

**Acupuncture 2300 years ago**

The oldest Chinese medicine book “Neijing”, also known as “The Classic of Internal Medicine of the Yellow Emperor”, shows that acupuncture was widely used as a therapy in China much before the time it was written. Besides, various kinds of acupuncture needles were discovered in the tomb of Prince Liu Sheng who died around 200 B.C. This is a further proof that acupuncture was already in use in China more than two thousand years ago.

- https://china.mrdonn.org/medicine.html
- https://www.britannica.com/science/acupuncture
Iron smelting 1050 BC-256 BC

*Taking raw iron from the earth and making it into a pure metal to make things.*

Archaeological evidence revealed that iron smelting technology was developed in China as early as 5th century BC in the Zhou Dynasty (1050 BC-256 BC). During the Spring & Autumn and Warring States periods (776-221 BC) China went into a flourishing period for iron smelting. In the Han Dynasty (202 BC -220 AD) central government monopolized the iron smelting, seeing remarkable development.


http://en.chinaculture.org/library/2008-02/01/content_26524.htm

https://www.tf.uni-kiel.de/matwis/amat/iss/kap_a/advanced/aa_2_2.html