

Sources and image use

Chinese Inventions That Changed the World • v2 • Full URLs and use limits

This record covers the facts and images actually used in the v2 lesson. It preserves the distinction between a historical object, a later illustration, a modern photograph, and a simplified teaching model. Access dates below carry forward the v1 verification completed 2026-09-08; v2 adds no unverified outside image or historical quotation.

Claim rules used throughout the pack

- Paper existed in China before 105 CE; 105 is associated with a court report of Cai Lun's improvements.
- The 868 Diamond Sutra is the earliest complete dated printed book known to survive; it is not "the first book."
- The 1119 compass account is an early written record of maritime use, not an invention date.
- The 1637 papermaking image is later than Han-period evidence.
- The c.1938 compass photograph dates the photograph, not the object's manufacture.
- The modern fireworks photograph illustrates a later use and is not ancient evidence.
- Gunpowder ingredients, ratios, and construction steps are excluded.

Source method

Student readings and teacher notes are original classroom paraphrases. Source pages are linked for teacher verification; their full text is not redistributed. The four source images are embedded so the pack works offline. Short slide captions identify what each image can and cannot support.

Complete editable source file

This DOCX is the editable source-and-image record. Its corresponding PDF is included in the teacher pack. Slide 17 points here so classroom slides can remain uncluttered.

Historical and instructional sources

Institutional sources actually used in v2

S01 Early Papermaking

Robert C. Williams Museum of Papermaking, Georgia Tech

<https://paper.gatech.edu/early-papermaking>

Use/limit: Early paper and cautious 105 CE background. Avoid its simplified transmission story.

S03 Printing and Movable Type

Columbia University, Asia for Educators

<https://afe.easia.columbia.edu/songdynasty-module/tech-printing.html>

Use/limit: Woodblock mechanism, Bi Sheng, and movable type. Does not establish movable type as best for every job.

S04 The Diamond Sutra

British Library, International Dunhuang Programme

<https://idp.bl.uk/blog/the-diamond-sutra/>

Use/limit: Object identification and 868 date. The displayed crop omits the dated end inscription.

S05 Shipbuilding and the Compass

Columbia University, Asia for Educators

<https://afe.easia.columbia.edu/songdynasty-module/tech-compass.html>

Use/limit: Written record of sea use in 1119. This is not an invention date.

S06 Gunpowder

Columbia University, Asia for Educators

<https://afe.easia.columbia.edu/songdynasty-module/tech-gunpowder.html>

Use/limit: Historical records and uses. Classroom text excludes technical ingredients and construction.

S07 The First Fireworks: Origins of the Rocket

Smithsonian National Air and Space Museum

<https://airandspace.si.edu/stories/editorial/first-fireworks-origins-rocket>

Use/limit: Historical discussion of fireworks and later uses; ambiguous early terms are treated cautiously.

S13 California HSS 7.3.5

California Department of Education

<https://www2.cde.ca.gov/cacs/id/web/4344>

Use/limit: Partial alignment only: the standard also names tea, which this lesson does not teach.

S14 Chinese compass held at the Museum circa 1938

Queensland State Archives, Digital Image ID 1884

<https://www.flickr.com/photos/queenslandstatearchives/14922773342>

Use/limit: Archive catalog and photo date; manufacture and early design are not established.

Access date for S01, S03–S07, S13–S14: 2026-09-08.

Image and diagram record

Rights, dates, adaptations, and what each visual can support

A01 Diamond Sutra detail, 868 CE

British Library Or.8210/P.2

[https://commons.wikimedia.org/wiki/File:Diamond_Sutra_of_868_AD_-_The_Diamond_Sutra_\(868\),_frontispiece_and_text_-_BL_Or._8210-P.2.jpg](https://commons.wikimedia.org/wiki/File:Diamond_Sutra_of_868_AD_-_The_Diamond_Sutra_(868),_frontispiece_and_text_-_BL_Or._8210-P.2.jpg)

Rights/adaptation/limit: CC0 as marked in the Wikimedia Commons file record. Resized and cropped. Real woodblock print; the crop omits the dated end inscription.

A02 Papermaking process illustration, 1637

Tiangong kaiwu; artist not identified in the file record

https://commons.wikimedia.org/wiki/File:Making_Paper.gif

Rights/adaptation/limit: Public domain old work. One supplied frame is resized. Later process illustration; not a Han eyewitness image or Cai Lun portrait.

A03 Chinese compass held at the Museum, photograph c.1938

Queensland State Archives, Digital Image ID 1884

<https://www.flickr.com/photos/queenslandstatearchives/14922773342>

Rights/adaptation/limit: Public Domain as marked by the archive. Resized. The c.1938 date belongs to the photograph; manufacture date and Song design are not established.

A04 Independence Day fireworks at the National Mall

U.S. National Park Service

https://commons.wikimedia.org/wiki/File:Independence_Day_Fireworks_in_the_National_Mall.jpg

Rights/adaptation/limit: Public domain U.S. federal-government photograph. Resized/cropped. Modern image; not ancient evidence or an invention date.

A05 Whole-page and separate-piece teaching models

China History Studio

Local editable shapes in the PPTX

Rights/adaptation/limit: Original classroom diagrams. English letters and simple blocks explain fixed/rearrangeable parts; actual printing surfaces were mirror-reversed.

Where the images appear

Use map, classroom display notes, and reuse guidance

Visual	Slides	Student/teacher files	Label to retain
A01 Diamond Sutra	1, 5, 7	Both handouts p.2; Group p.1	Real historical woodblock-printed object; 868 date from the full scroll/catalog.
A02 1637 papermaking	2, 4	Teacher Guide	Later process illustration, 1637; not evidence for a 105 first-paper claim.
A03 compass photo	8	Teacher Guide	Collection photograph c.1938; manufacture date not established.
A04 fireworks photo	9	Teacher Guide	Modern NPS photograph; illustrates a later entertainment use.
A05 teaching models	6, 10–12	Group p.2	Simplified classroom model; actual printing surfaces carried reversed characters.

Offline and public-pack use

Images are embedded in PPTX, DOCX, and PDFs. No classroom file relies on a local image link.

Reuse reminders

Keep source captions with object images. Do not detach a date from its evidence type. Do not present the line-art planning screenshots, teaching models, or later images as primary evidence for early invention dates. Verify rights again before publishing images outside this lesson pack.