



INVENTIONS THAT CHANGED THE WORLD

THE PRINTING PRESS





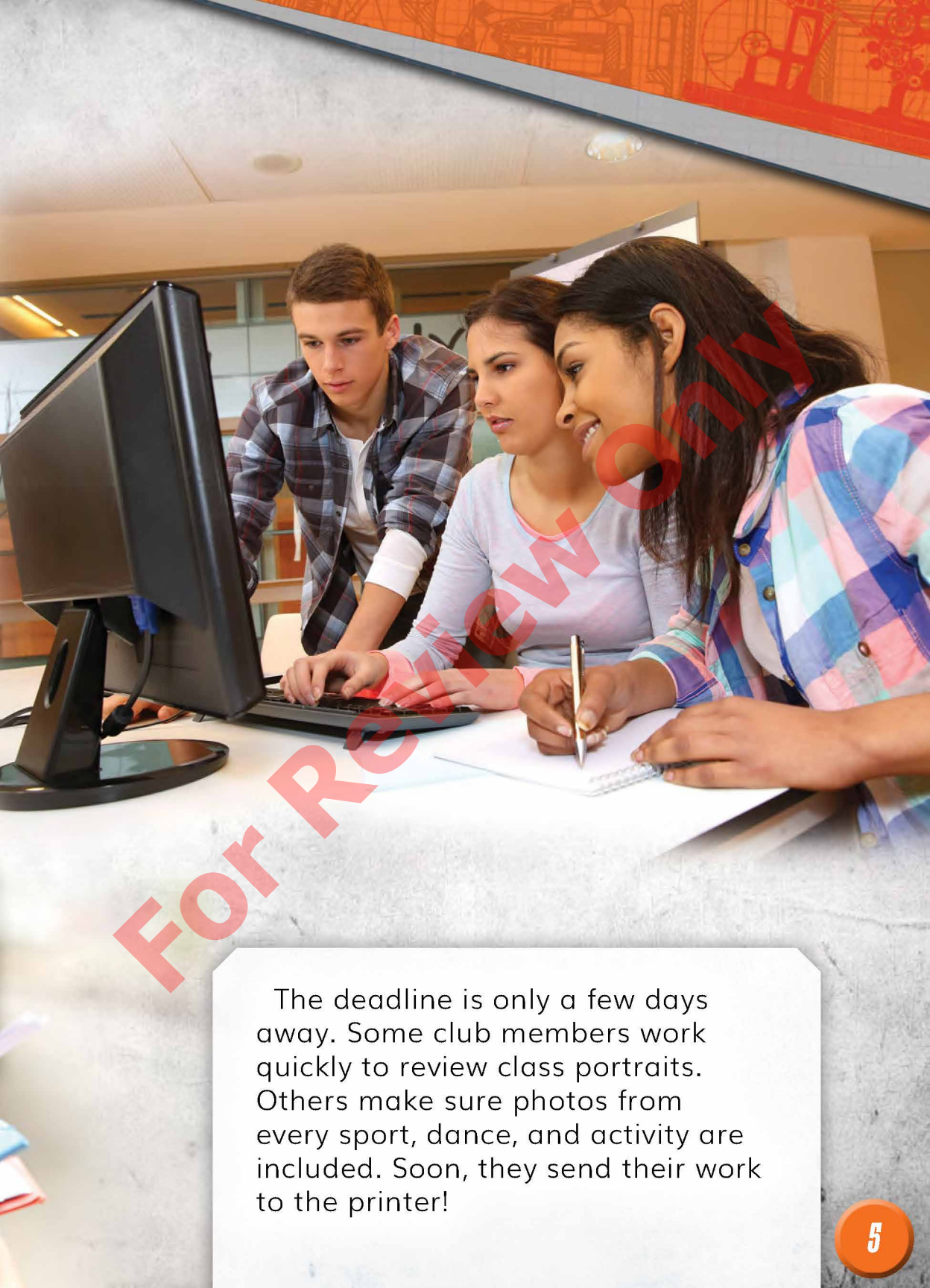
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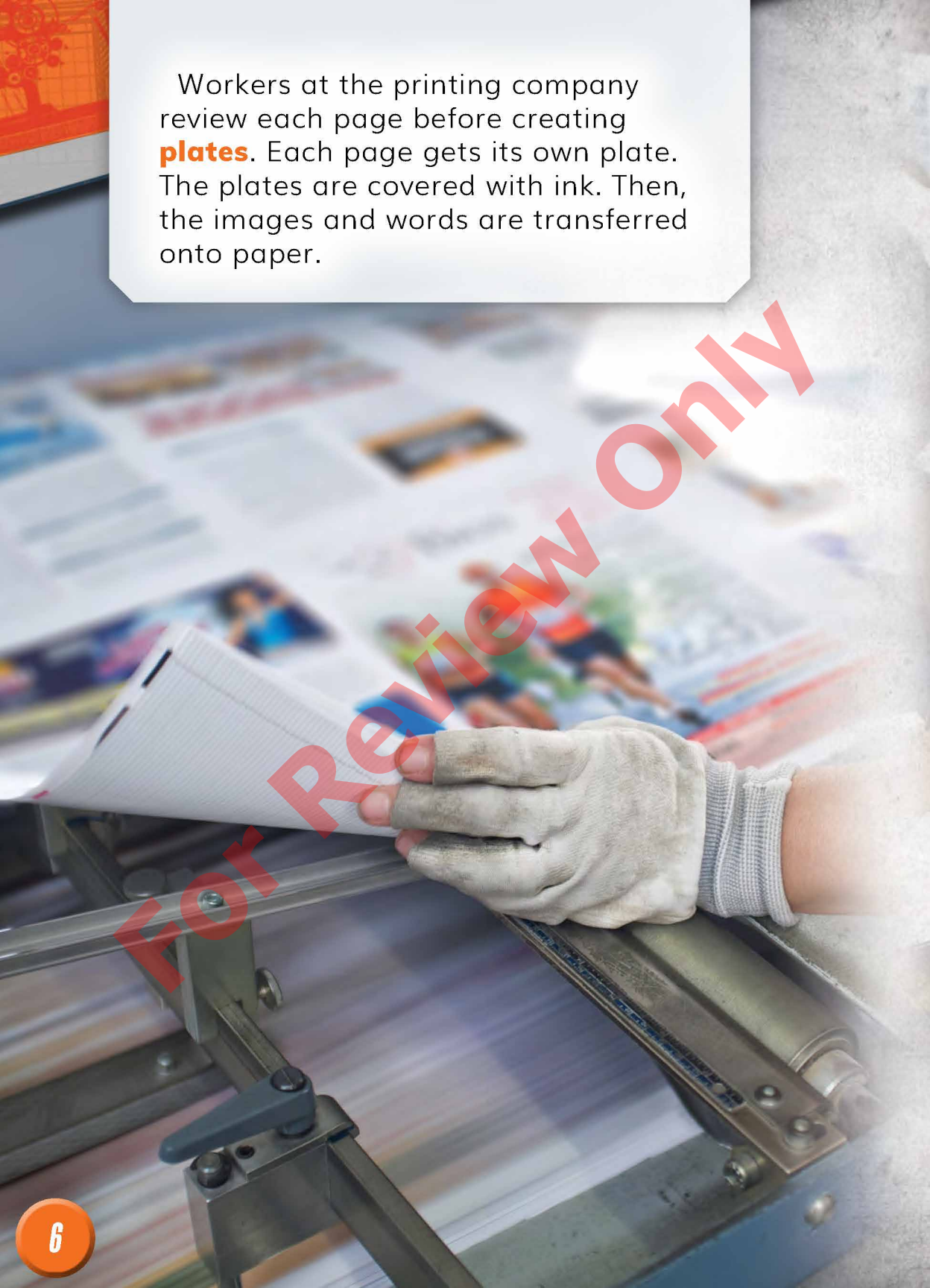
A BOOK OF MEMORIES

The yearbook club has worked hard to make this year's yearbook the best their middle school has ever seen! They have spent hours printing out layouts to review. Each colored printout gives them an idea of what the yearbook will look like.

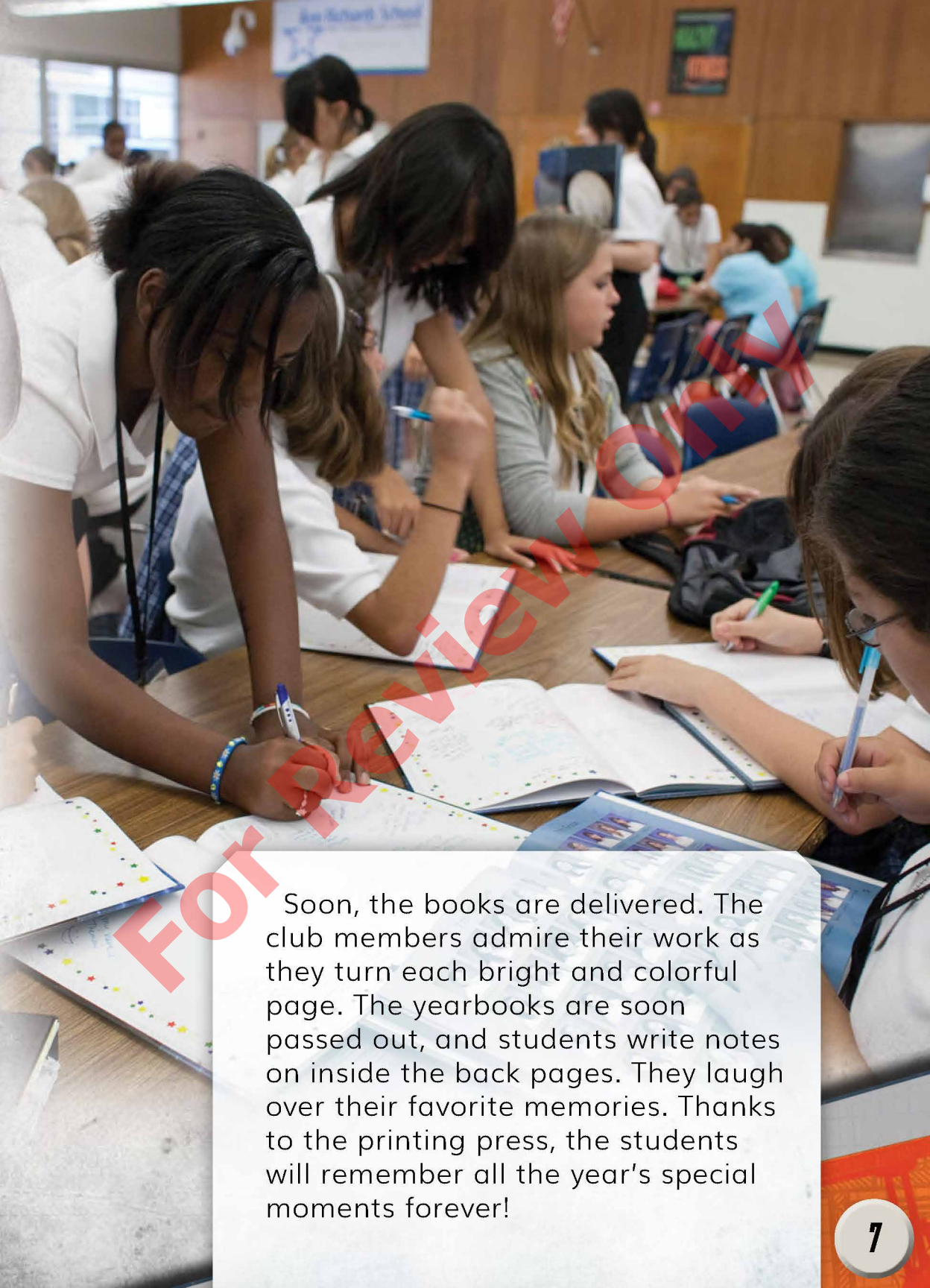




The deadline is only a few days away. Some club members work quickly to review class portraits. Others make sure photos from every sport, dance, and activity are included. Soon, they send their work to the printer!

A close-up photograph of a worker's hand wearing a light-colored, textured work glove. The hand is positioned on a metal frame of a printing press, holding a white sheet of paper. In the background, several printed pages are visible, showing various images and text. A large, diagonal red watermark reading "For Review Only" is overlaid across the center of the image.

Workers at the printing company review each page before creating **plates**. Each page gets its own plate. The plates are covered with ink. Then, the images and words are transferred onto paper.



Soon, the books are delivered. The club members admire their work as they turn each bright and colorful page. The yearbooks are soon passed out, and students write notes on inside the back pages. They laugh over their favorite memories. Thanks to the printing press, the students will remember all the year's special moments forever!

THE STAMPS OF TIME

Humans have recorded ideas for thousands of years! The oldest records of printing are **negative stencil** handprints on cave walls. Later, **cylinder seals** were used to print on clay. Around the year 1000, Chinese printers created woodblock printing. They carved words onto wood. Then, they covered the words in ink and pressed the wood onto paper or cloth.

**negative stencil handprints,
Cave of the Hands, Argentina**

DID YOU KNOW?

The oldest printed book that still exists is the Buddhist "Diamond-Sutra." It was printed in 868 CE!

Bi Sheng

Around 1040, Chinese inventor Bi Sheng improved woodblock printing with **movable type**. This method was similar to woodblock printing. But instead of carving into a large block, individual characters were made. They could be arranged and rearranged to make new sentences!

PRINTING PRESS TIMELINE

3000 BCE

Mesopotamians use round cylinder seals to push images into clay



1444

Johannes Gutenberg's printing press is introduced to the public



1040 CE

Bi Sheng invents the first moveable type out of clay

1812

The steam-powered press is created by Friedrich Koenig and Andreas Friedrich Bauer



1875

Robert Barclay invents
offset printing

1969

Xerox invents the
first laser printer

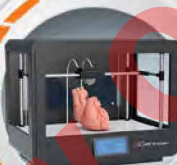
1984

3D printing
is developed

2019-

Future developments

xerox



2012

A team at the University
of Illinois create a pen
with conductive ink

1843

Richard M. Hoe invents
the rotary press

2003

Hewlett Packard launches
the first wi-fi printer

