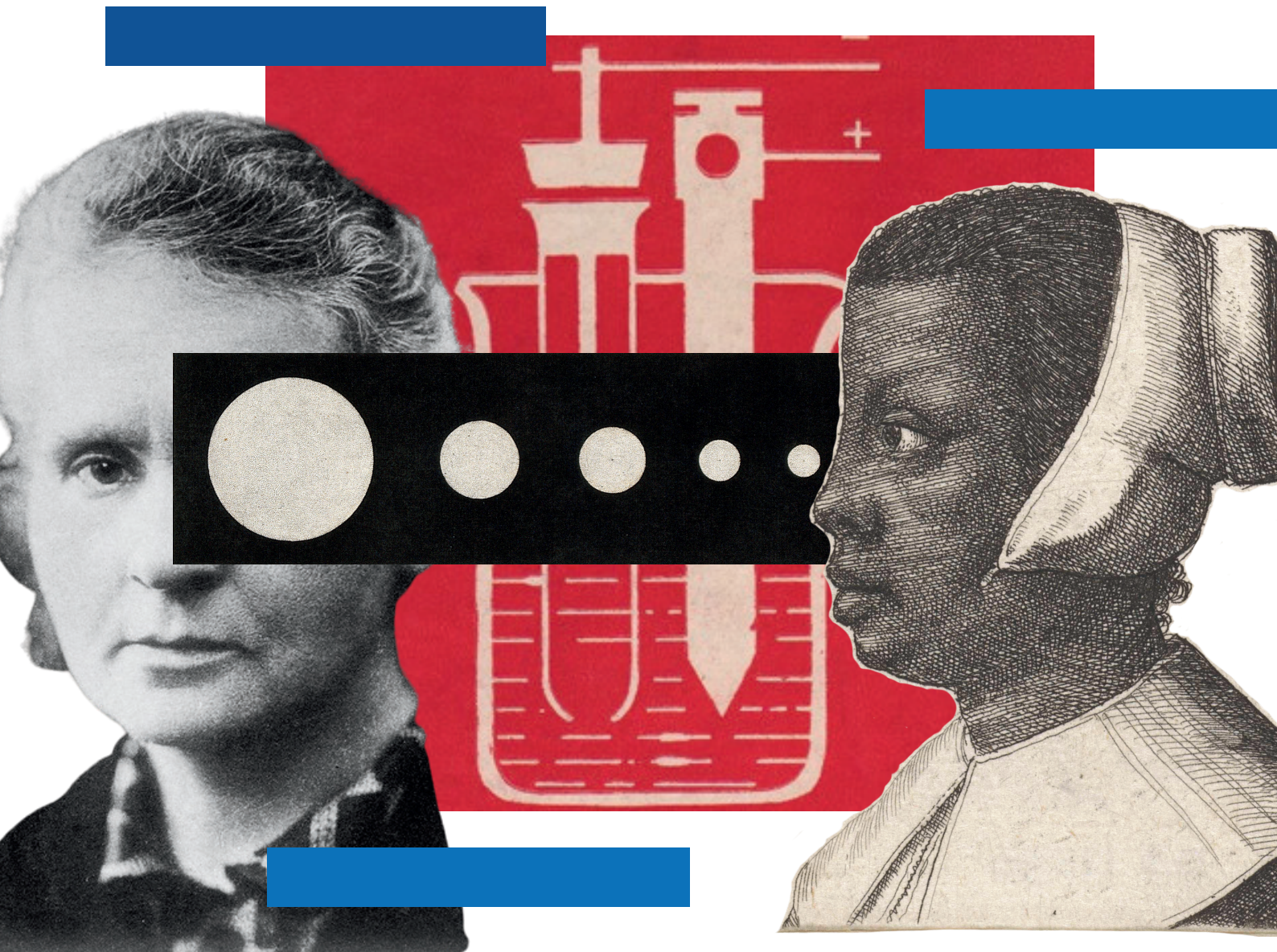


ACTIVITY KIT

# Women in science

*Get creative while learning about women's  
scientific contributions*



# Introduction

Europeana has been celebrating Women's History Month every March since 2019.

Each year, there are a variety of activities ranging from writing and sharing stories of notable and underrepresented women and women's movements across Europe and beyond to highlighting organisations spotlighting women's history, social media collaborations and collage workshops.

Women have historically been ignored in the field of science though they have contributed significantly. Scientific fields have also often minimised and overlooked research on women and prioritised men in health and much more. By using the cultural heritage materials in this activity kit, you can reflect on and share your creative voice on the topic of women and science.

Celebrate women and science with creative activities!

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# Collage Materials

Find historical images of women in science, depictions of diverse women as well as objects connected to the topic of science.

Recreate and imagine different kinds of women interacting with science as they have done in historical times to the present.

You can cut the images you like from pages 5 to 12 to create your collages or look through our digital collage resources and guidelines for inspiration and support.

## Digital collage tutorial

<https://bit.ly/digital-collage>





MME CURIE AND HER DAUGHTER IRÈNE, 1925

Portrait of Marie Curie and her daughter Irène - Wellcome Collection, United Kingdom - CC BY.



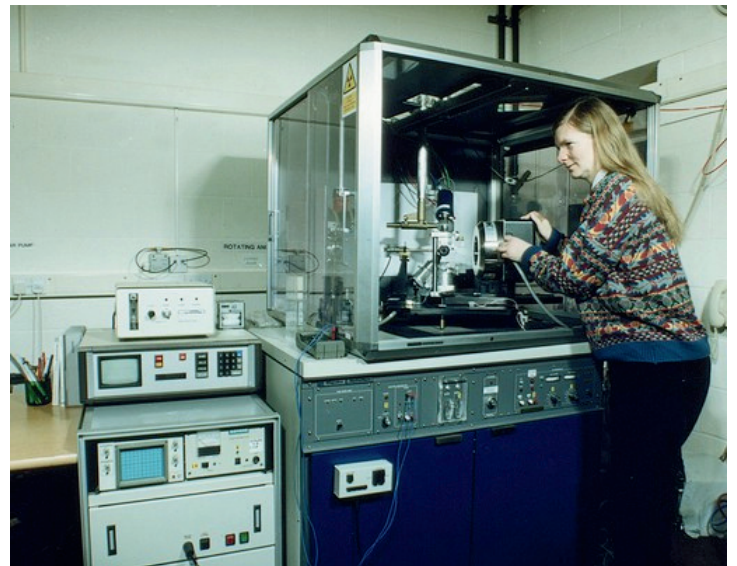
Scientist examines bacterial culture flask by Mol. Biophysics, Oxford Univ. - Wellcome Collection, United Kingdom - CC BY.



The Water Research Institution by Voutilainen, Erkki - Finnish Heritage Agency, Finland - CC BY.



Three women from the Red Star are studying a horse skeleton. - Army Museum, Sweden - Public Domain.



Researcher in molecular physics laboratory by Mol. Biophysics, Oxford Univ. - Wellcome Collection, United Kingdom - CC BY.



Artemisia Building the Mausoleum by Simon Vouet - Nationalmuseum Sweden, Public Domain.



Seed testing in a laboratory, by Paas, G.- 1955 - Estonian Rural Museum Foundation, Estonia - CC0.



Sjuksköterska utbildad vid Fredrika Bremerskola. Klin kem labbsjuksköterska - Västernorrlands museum, Sweden - CC BY.



Title Page Design for Agnes Block's Florilegia - Rijksmuseum, Netherlands - Public Domain.



A woman doctor bandaging a young woman's hand. Mezzotint, 1787. - 1787 - Wellcome Collection, United Kingdom - CC BY.



A female figure performing chemical experiments with a furnace: representing chemistry. 1773 - Wellcome Collection, United Kingdom - CC BY.



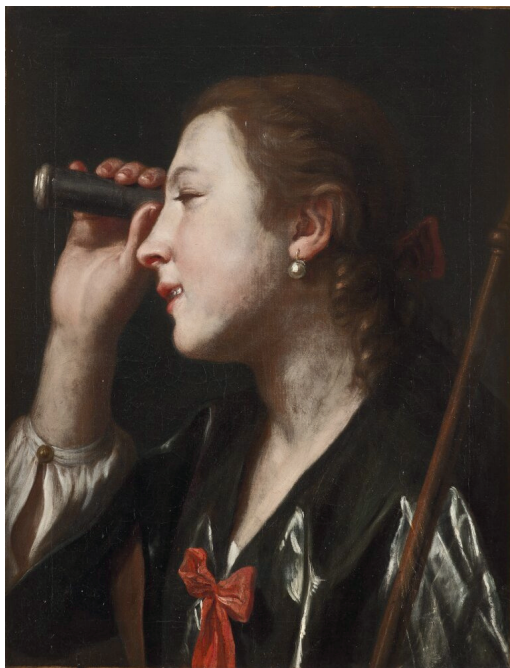
Female apothecary, Martin Engelbrecht - Wellcome Collection, United Kingdom - CC BY.



Elizabeth Garrett Anderson. Photograph. - Wellcome Collection, United Kingdom - CC BY.



Ørnelund, Leif - Oslo Museum, Norway - CC BY-SA.



Girl Looking through a Telescope by Pietro Rotari - Nationalmuseum Sweden, Sweden - Public Domain.



Young women and girls examining the stump, possibly counting the limbs - 1937 - Lusto - The Finnish Forest Museum, Finland - CC BY.

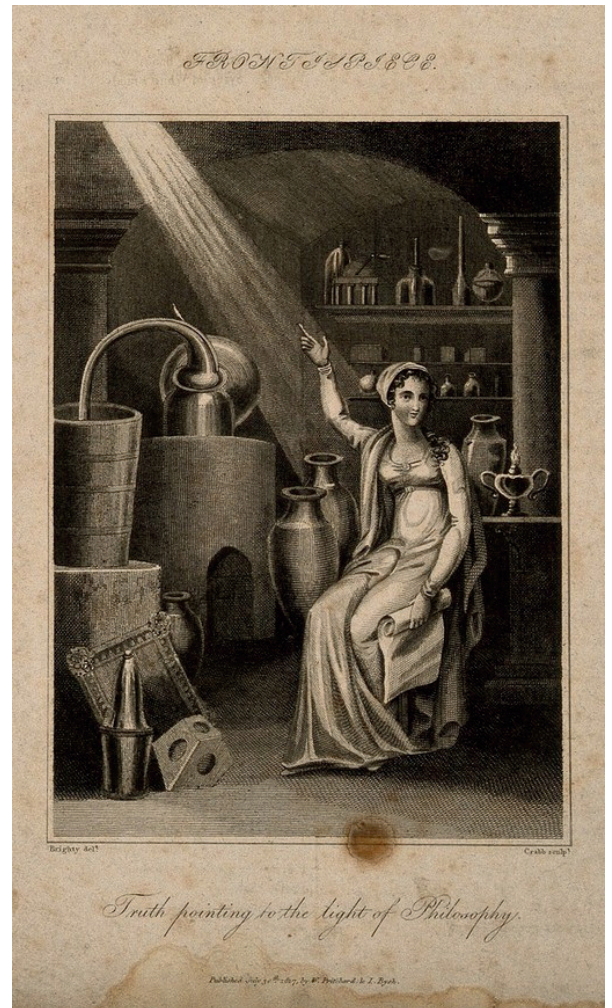


Oulu girls' lyceum's candidates for the matriculation examination on March 2, 1931 - Finnish Heritage Agency, Finland - CC BY.



WOMEN STUDENTS OF PHYSIOLOGY AT WORK.

The London School of Medicine, Physiology Laboratory. Women students at work, 1899. - Wellcome Collection, United Kingdom - CC BY.



A woman representing truth sits in a chemical laboratory and points at the source of a ray of light. Engraving by Crabb, 1817, after Brighty. by G. M. Brighty - 1817 - Wellcome Collection, United Kingdom - CC BY.



Two girls - Vänersborgs museum, Sweden - CC BY-SA.



Reading Old Lady by Weisz-Kubínčan, Arnold Peter - Slovak national gallery, Slovakia - Public Domain.



Portrait of a young black woman wearing a lace cap and matching collar - 1645 - Rijksmuseum, Netherlands - Public Domain.



En kvinna i rullstol. by Hallberg, Gustaf Ferdinand - Örebro County Museum, Sweden - Public Domain.



Tea tray, woman, photography, photograph - Museum of Ethnography, Sweden - Public Domain.



Blind magazine 23 December 1965  
Woman Reading News on a Tape Player  
by Örebro Kuriren - Örebro County Museum, Sweden - Public Domain.



Indian Girl, May 13, 1966 An elderly man in a suit, shirt and tie and a young Indian woman in blouse sits in a room filled with books on bookshelves. by Örebro Kuriren - Örebro County Museum, Sweden - Public Domain.



Młoda kobieta i dziewczynka by Wenzel, Václav (Wenzel) (1865-1936).  
Fot. - Library of the Wrocław University, Poland - Public Domain.



Two Girls by Årnström, Josef - Upplands Museum, Sweden - Public Domain.



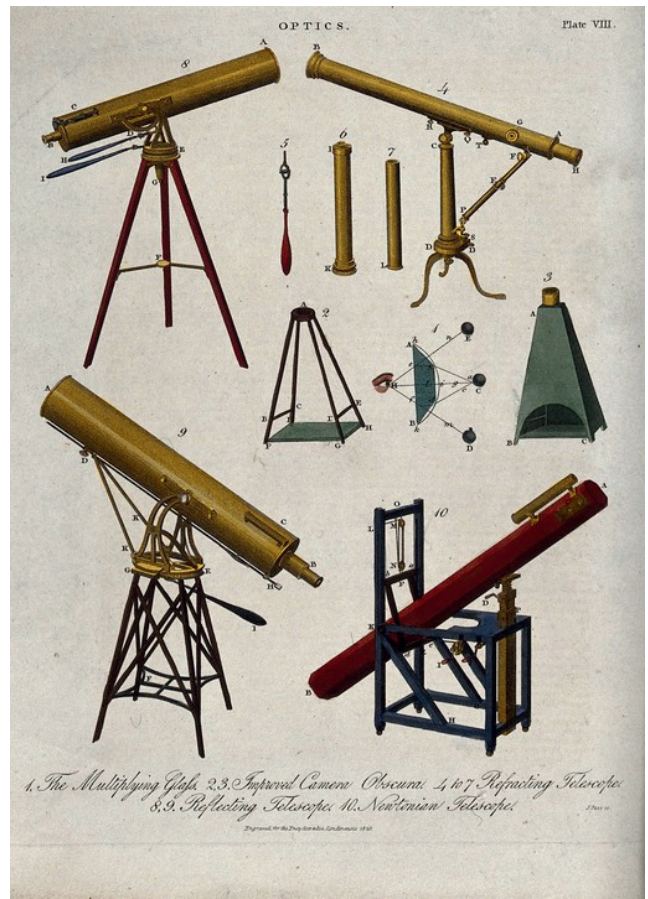
A woman and a girl read a book. - Nationaal Archief, The Netherlands - Public Domain.



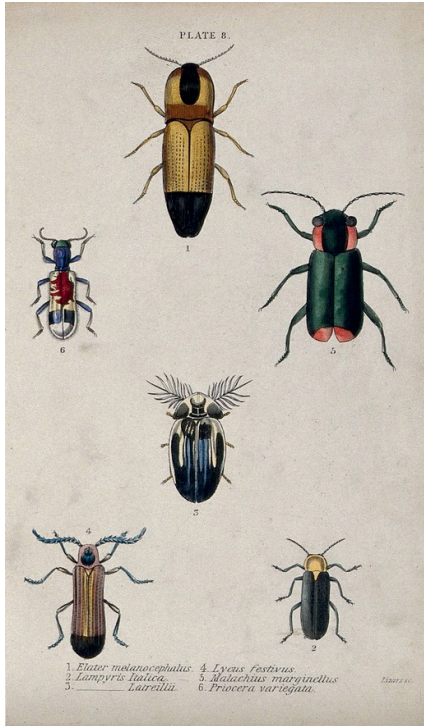
Book cover from "A Plunge into Space". - 1890 - The British Library, United Kingdom - Public Domain.



The brain by Bill McConkey - Wellcome Collection, United Kingdom - CC BY.



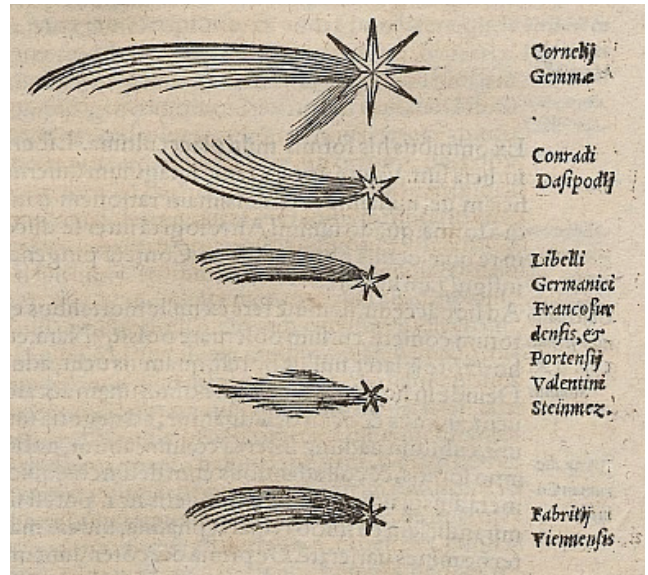
Astronomy: several telescopes and tripods. Engraving. - Wellcome Collection, United Kingdom - CC BY.



Six winged insects. Coloured engraving by W. H. Lizars. - Wellcome Collection, United Kingdom - CC BY.



Halarachnion ligulatum (Woodw.) Kütz. - 1833 - The Trustees of the Natural History Museum, London, United Kingdom - CC BY.



Kometen - Deutsche Fotothek, Germany - Public Domain.



Stetoskoop - Estonian Health Museum, Estonia - CCO.



Landscape Computer KTP-84 by Rautaruukki Oy - Lusto - The Finnish Forest Museum, Finland - CC BY.



Taskulaskin by Commodore Business Machines, Inc. - Finnish Heritage Agency, Finland - CC BY.



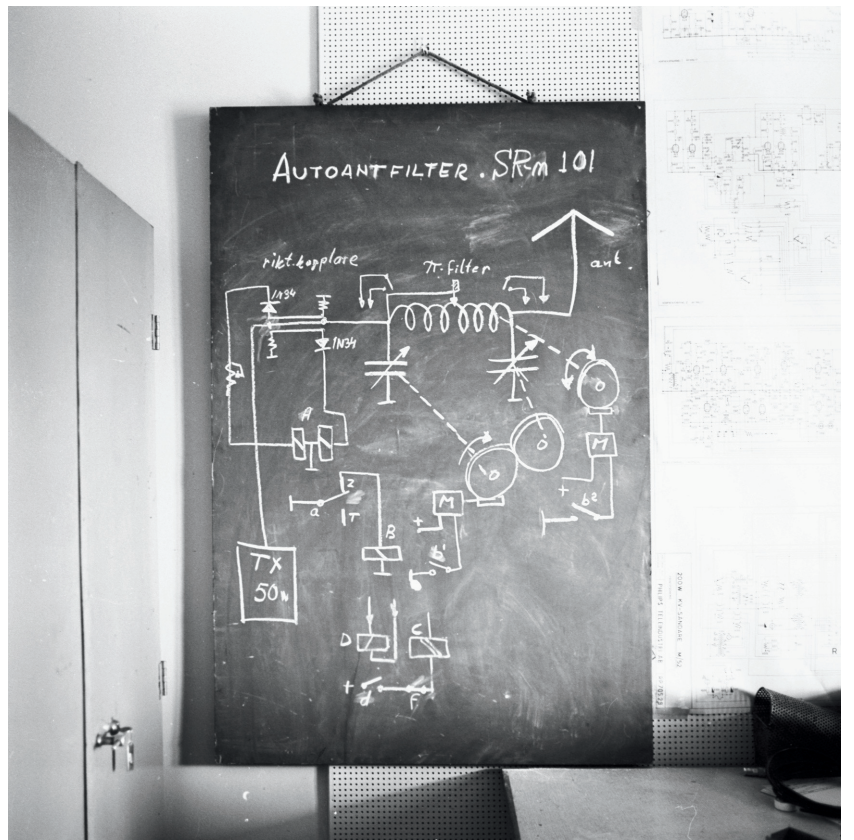
Laboratory equipment by Kate Whitley - Wellcome Collection, United Kingdom - CC BY.



Astronomy: a star map of the night sky. Coloured engraving, 1777. - Wellcome Collection, United Kingdom - CC BY.



Anatomy and botany; top, skull and its various parts; bottom, plant. Coloured engraving, 1834-1837. - Wellcome Collection, United Kingdom - CC BY.



PPI display and chart by Bergqvist, Lennart - Naval Museum, Sweden - Public Domain.

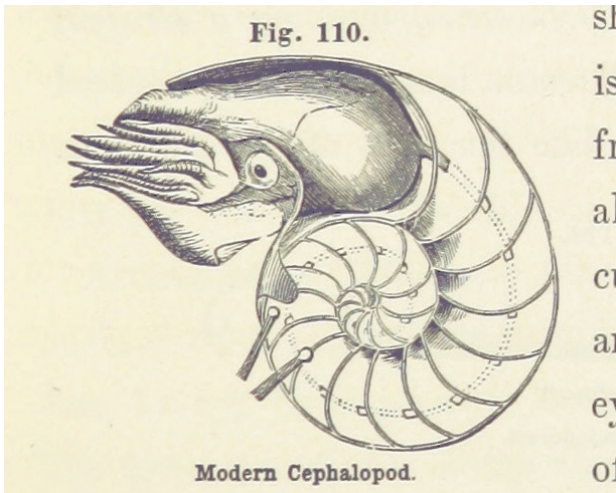
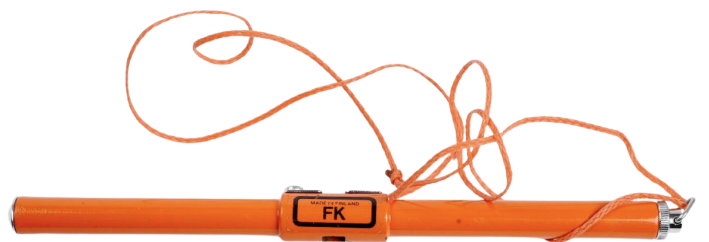


Diagram from "The Geological Story briefly told. An introduction to geology ... With numerous illustrations". - 1875 - The British Library, United Kingdom - Public Domain.



Measuring instrument by FK - Lusto - The Finnish Forest Museum, Finland - CC BY.

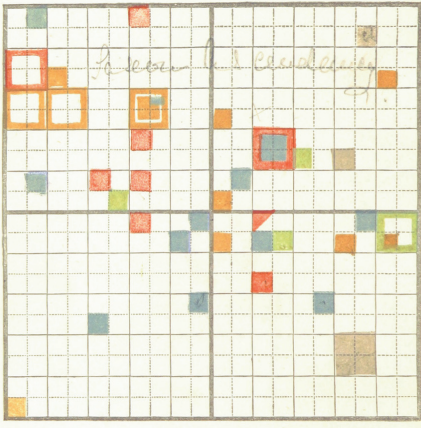
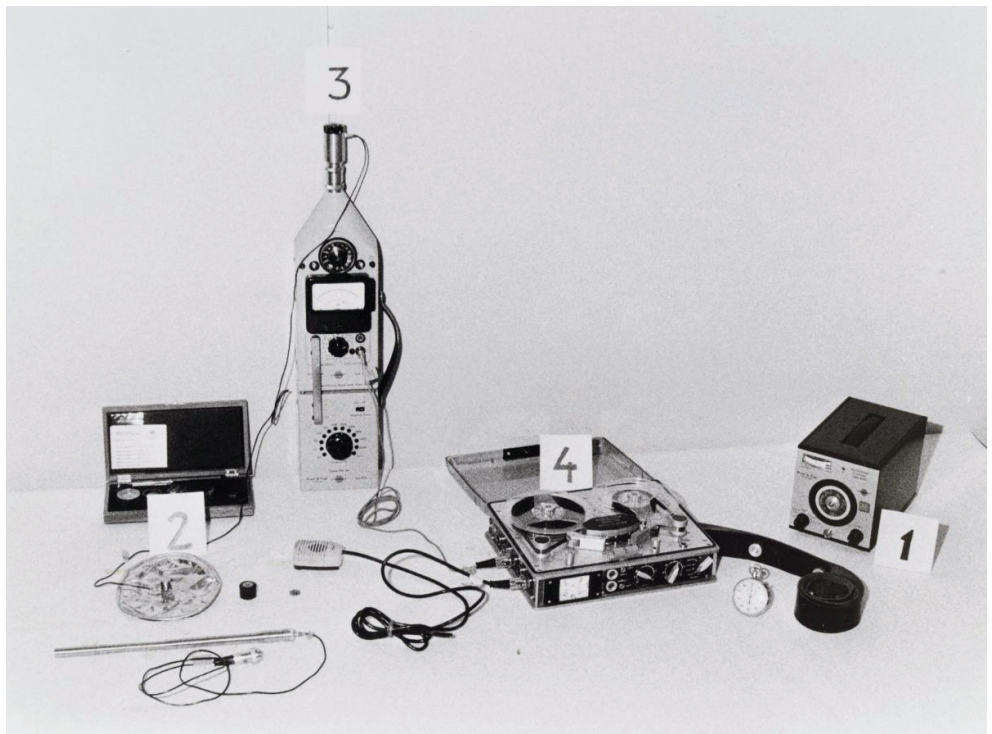


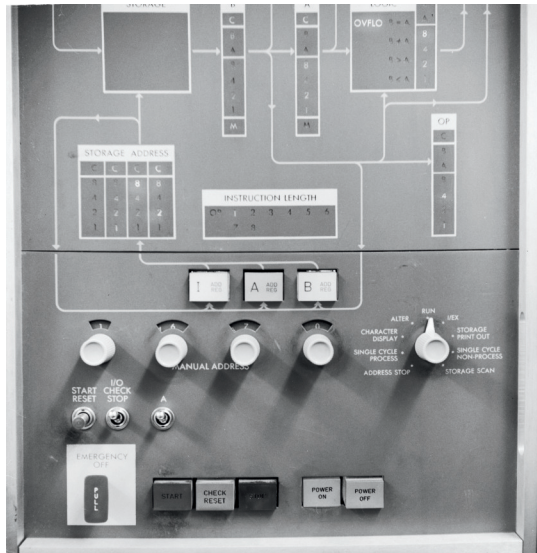
Diagram from "The Chromatographic Chronicle of English History, illustrated by ... coloured charts, etc". - 1864 - The British Library, United Kingdom - Public Domain.



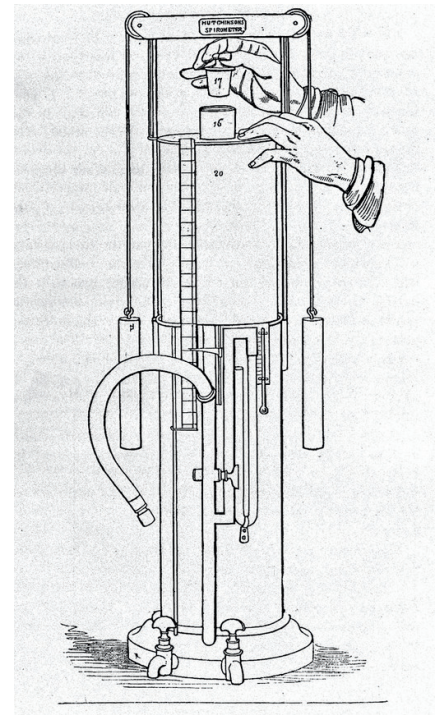
"Sound and vibration measuring equipment used by the factory"(original text on the card). Vibration measuring equipment: 1. Calibration apparatus 2. Sensor placed on the seat 3. Accuracy gauge 4. Instrument recorder. - Lusto - The Finnish Forest Museum, Finland - CC BY.



Telephone station. Computer display from the system ABTOMAT-| . - Foundation of Haapsalu and Läänemaa Museums, Estonia - CC0.



Detail van de Bull computer (IBM 1401) Nederlandse Spoorwegen, fotograaf - The Utrecht Archives, Netherlands - CC0.



Spirometer - apparatus for measuring respiration. - Wellcome Collection, United Kingdom - CC BY.

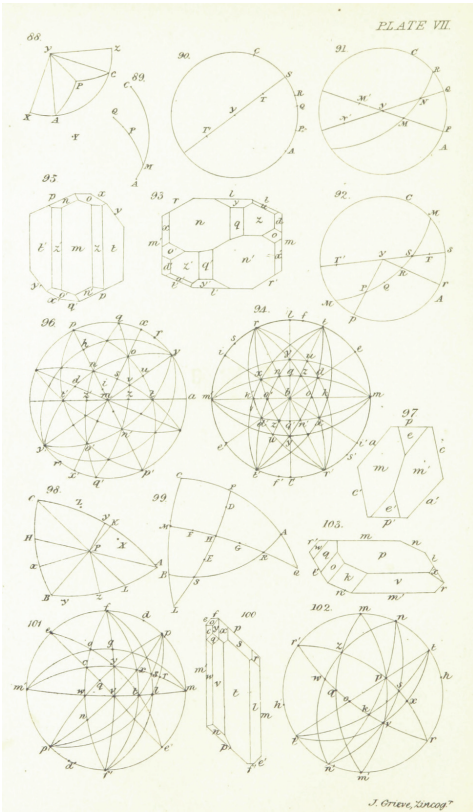
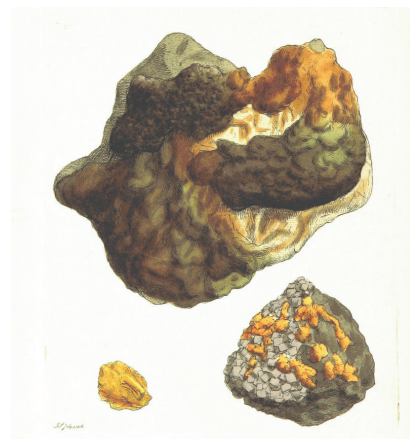


Diagram from "A Treatise on Crystallography". - 1839 - The British Library, United Kingdom - Public Domain.



Geography: a diagram of the comparative height of various mountains. by John Emslie - 1851 - Wellcome Collection, United Kingdom - CC BY.



Mineral from "British Mineralogy: or coloured figures intended to elucidate the mineralogy of Great Britain. By J. Sowerby (with assistance). F.P". - The British Library, United Kingdom - Public Domain.

# Memory Game

Match portraits of historical women in science with information about them. History makes choices about whose story gets to be told, remembered and celebrated.

By creating a women in science memory game, you get to remember, highlight and celebrate the often overlooked history of women in scientific fields.

## Rules

1. Cut out all the cards on pages 14 and 15.
2. Shuffle the cards and lay them face down in rows on a table.
3. The first player turns over two cards. If the pictures and short biographies match, the player keeps the cards and tries again for another match. If they do not match the cards are turned over again and the player to the left takes a turn.
4. Each player must try to remember where they have seen cards, so they can use them to make a match.
5. When all of the cards have been matched, players count their pairs. The player with the most pairs wins.



## Caroline Herschel (1750 - 1848)

a German astronomer, whose most significant contributions to astronomy were the discoveries of several comets



Frau Dr. Erxleben.

## Dorothea Erxleben (1715 - 1762)

a German medical doctor who became the first woman to obtain a doctoral degree in medicine in Germany



93

DU CHATELET  
(Émilie Le Tonnelier de Breteuil)  
Née à Paris en 1706. Fut mariée jeune au Marquis du Châtelet, Lieutenant-Général. Elle vint avec la licence que la Régence avoit introduite dans les mœurs. Très instruite et douce d'une vive imagination, distinguée et d'un caractère passionné, elle se livra à la lecture de tous les ouvrages qui passèrent plusieurs années après d'elle à Cirey, enfin avec d'Alembert. Elle mourut en 1749.

Collection ND. Phot.

## Émilie du Châtelet (1706 - 1749)

a French mathematician and physicist. Her most recognized achievement is her work Foundations of Physics



## Mary Somerville (1780 - 1872)

a Scottish scientist, writer, and polymath for whom the term "scientist" was specifically coined in 1834



## **Justina Sigmundin (1636 - 1705)**

a Silesian midwife. Her obstetrical book, The Court Midwife, was the first German medical text written by a woman



*Eleanor A. Ormerod*

## **Eleanor Ormerod (1828 - 1901)**

a pioneer English entomologist (a scientist who studies insects). She became one of the first experts to create the field of agricultural pest control.



**ANNA MANZOLINI**  
*U. A. Angiolini*

## **Anna Manzolini (1714 - 1774)**

an Italian anatomist famous for making lifelike wax figures that show the inside of the human body



*Maria Gaetana Agnesi*

## **Maria Gaetana Agnesi (1718 - 1799)**

an Italian mathematician, the first woman to write a maths handbook, the first woman appointed as a mathematics professor at a university

# Zine Templates

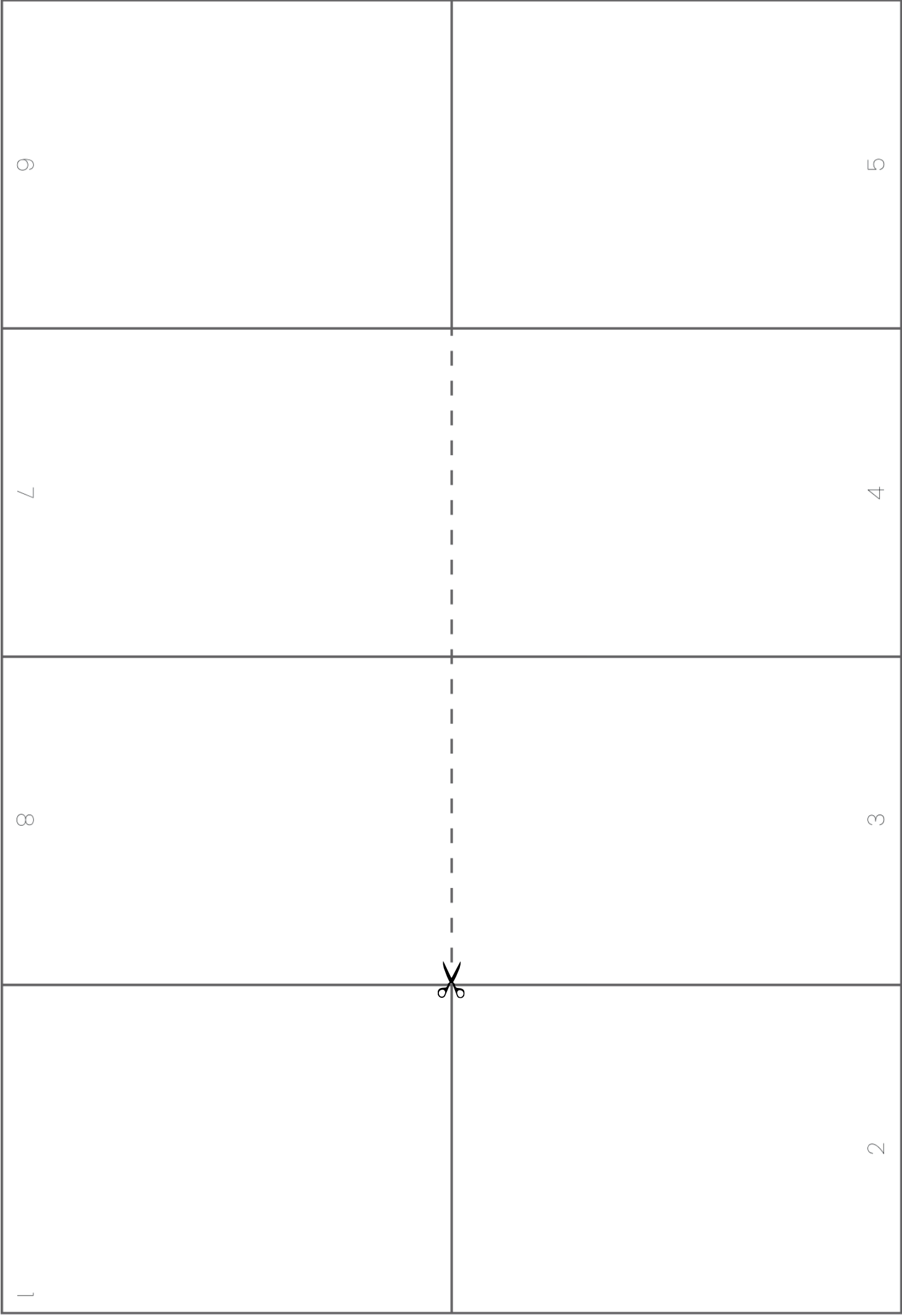
Making zines are a great way of self expression and self publishing. Combine collage materials, your own drawings and text to tell stories you want to share that celebrate, explore and uncover the history of women in science.

Look through our zine resources and guidelines for inspiration

## Zine tutorial

<https://bit.ly/zines-tutorial>





1

8

7

6

2

3

4

5

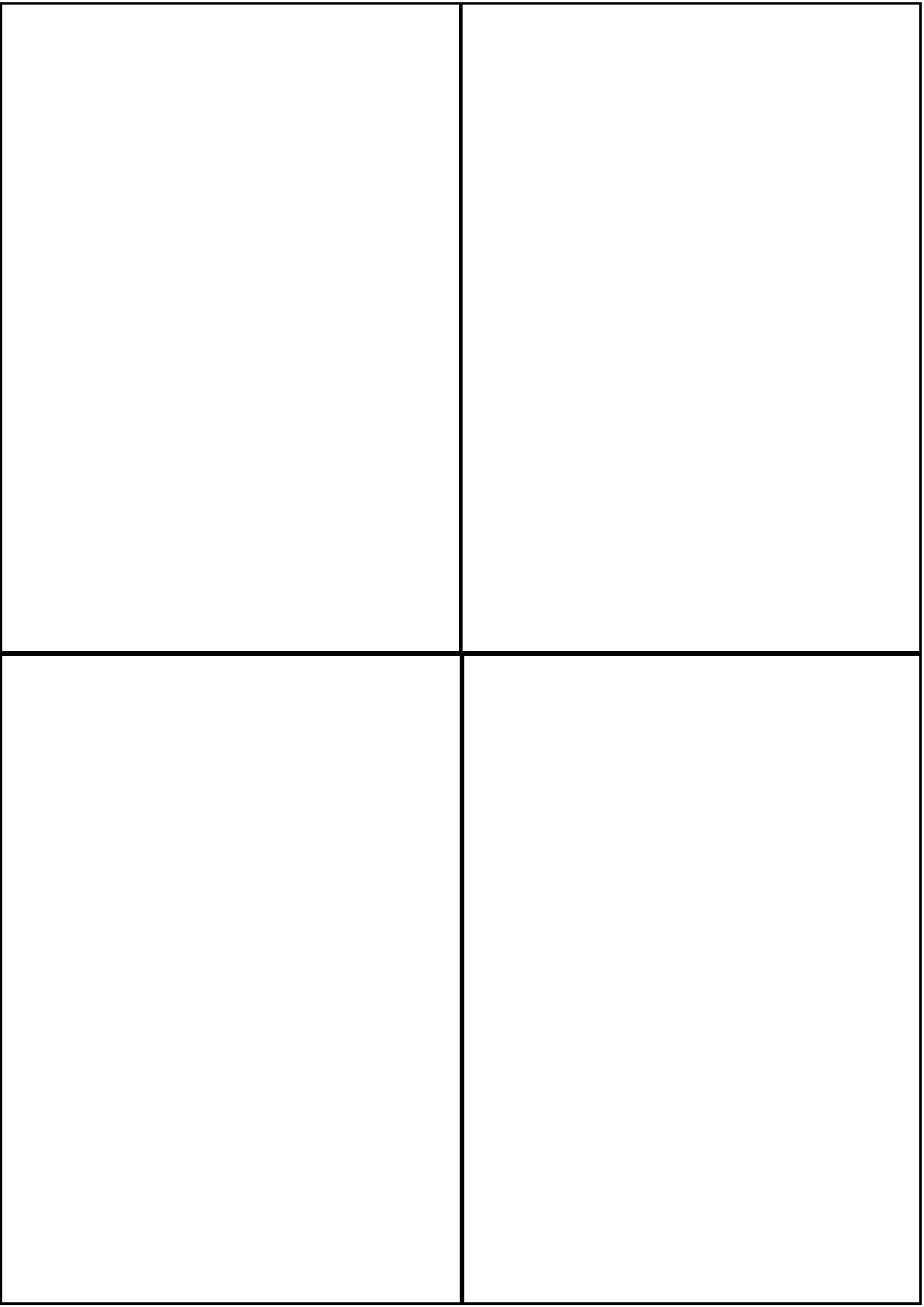


# Postcard Template

Celebrate International Women's Day, Women's History Month, and any other day commemorating women by using these postcard templates.

Postcards are typically A6 in size so every A4 page will contain 4 postcards. Cut out your favourite image and glue it on thick piece of A6 paper.

Your postcard is ready to give to a loved one!



# Stories

Browse a wide range of stories related to women's history on Europeana.eu

You can view our stories of women in science or general women's stories through these QR codes or links.

## Women and science

<https://bit.ly/women-and-science>



## Women's history

<https://bit.ly/women-s-history>







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