

Name: ..... 2<sup>nd</sup> .....



## Women in science

### Final task: interview

Pair work: Record an interview of a women who worked in the scientific field. You will work in pairs, one of you will be the journalist, the other the scientist. Your mp3 file must be uploaded on EcoleDirecte in the *Cahier de Textes* section (**not by email**).

Due date: .....

Your podcast must last between 3 and 5 min, and it must answer the following questions/items in this order:

### I. Presentation

The Person

- a) Dates: birth and death /1
- b) Where does she come from? /1
- c) Did her family's occupation show her the way? /2

The background

- d) The century /1
- e) What happened in **political life** and society at that time? /3  
(Specially related to women's rights or anything that changed her way of life like a war for example)
- f) What happened in the **scientific field** at that time? /3

### II. Work and discoveries

- a) What is she most famous for? (Give details) /3
- b) Which less famous work did she do? /1
- c) Has she published something? (Titles, dates...) /2
- d) How was her work accepted? Which problems did she face? /3

Sub-total 1: Content	/20
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Communication skills (voice modulation, intonation, rhythm, fluency...) /4

Language skills (pronunciation, vocabulary, grammar...) /3

Duration /2

Instructions followed (way to hand in your work, due date respected...) /4

Creativity/investment in the project /2

Sub-total 2: English skills and investment	/15
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TOTAL	/35
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Be careful with plagiarism! You cannot use sentences that you find online: *create your own*. If I hear something that I can find online, your grade will be severely affected!

Here are 55 women who made undeniably vital contributions to science.

### Pre-16<sup>th</sup> century

- 1- Hypatia (c. 370-415),  
ancient Greek mathematician

### 17<sup>th</sup> century

- 2- Maria Cunitz (1610-1664), German astronomer
- 3- Margaret Cavendish (1623-1673),  
English natural philosopher
- 4- Maria Margarethe Kirch (1670-1720),  
German astronomer
- 5- Jeanne Dumée (unknown-1706),  
French astronomer

### 18<sup>th</sup> century

- 6- Émilie du Châtelet (1706-1749),  
French mathematician and natural philosopher
- 7- Laura Bassi (1711-1778),  
Italian natural philosopher
- 8- Maria Gaetana Agnesi (1718-1799),  
Italian mathematician
- 9- Nicole-Reine Lepaute (1723-1792),  
French astronomer
- 10- Caroline Herschel (1750-1848),  
German astronomer
- 11- Sophie Germain (1776-1831),  
French mathematician
- 12- Mary Somerville (1780-1872),  
British astronomer
- 13- Elizabeth Fulhame (c. 1794), British chemist

### 19<sup>th</sup> century

- 14- Ada Lovelace (1815-1851),  
British mathematician
- 15- Maria Mitchell (1818-1889),  
American astronomer
- 16- Ellen Swallow Richards (1842-1911),  
American chemist
- 17- Margaret Lindsay Murray Huggins (1848-1915),  
Irish-British astronomer
- 18- Sofia Kovalevskaya (1850-1891),  
Russian mathematician
- 19- Hertha Marks Ayrton (1854-1923),  
British mathematician and engineer
- 20- Williamina Fleming (1857-1911),  
British-American astronomer
- 21- Margaret Eliza Maltby (1860-1944),  
American physicist
- 22- Annie Jump Cannon (1863-1941),  
American astronomer
- 23- Marie Skłodowska-Curie (1867-1934),  
Polish-French chemist and physicist
- 24- Henrietta Swan Leavitt (1868-1921),  
American astronomer
- 25- Annie Russell Maunder (1868-1947),  
British astronomer
- 26- Harriet Brooks (1876-1933), Canadian physicist
- 27- Lise Meitner (1878-1968),  
Austrian physicist and chemist

- 28- Ellen Gleditsch (1879-1968),  
Norwegian chemist
- 29- Emmy Noether (1882-1935),  
German mathematician
- 30- Edith Quimby (1891-1982), American physicist
- 31- Marietta Blau (1894-1970), Austrian physicist
- 32- Ida Noddack (1896-1978),  
German chemist and physicist
- 33- Irène Joliot-Curie (1897-1956), French chemist
- 34- Charlotte Moore Sitterly (1898-1990),  
American astronomer

### 20<sup>th</sup> century

- 35- Mary Cartwright (1900-1998),  
British mathematician
- 36- Cecilia Payne-Gaposchkin (1900-1978),  
British-American astronomer
- 37- Kathleen Lonsdale (1903-1971),  
British physicist
- 38- Katharine Way (1903-1995), American physicist
- 39- Grace Hopper (1906-1992),  
American computer scientist
- 40- Maria Goeppert-Mayer (1906-1972),  
German-American physicist
- 41- Dorothy Crowfoot Hodgkin (1910-1994),  
British chemist
- 42- Chien-Shiung Wu (1912-1997),  
Chinese-American physicist
- 43- Leona Woods (1919-1986), American physicist
- 44- Rosalind Franklin (1920-1958), British chemist
- 45- Marie Maynard Daly (1921-2003),  
American chemist
- 46- Vera Rubin (1928-2016), American astronomer
- 47- Valentina Tereshkova (1937),  
Russian cosmonaut and physicist
- 48- Ada Yonath (1939), Israeli chemist
- 49- Helen Quinn (1943), American physicist
- 50- Jocelyn Bell Burnell (1943), British astronomer
- 51- Sandra Moore Faber (1944),  
American astronomer
- 52- Sally Ride (1951-2012),  
American physicist and astronaut
- 53- Carolyn Porco (1953),  
American planetary scientist
- 54- Lene Vestergaard Hau (1959), Danish physicist
- 55- Fabiola Gianotti (1962), Italian physicist

More details on some of these women:

