

Scientific Literacy – Scientific Work Using the Example of COVID-19

Tasks

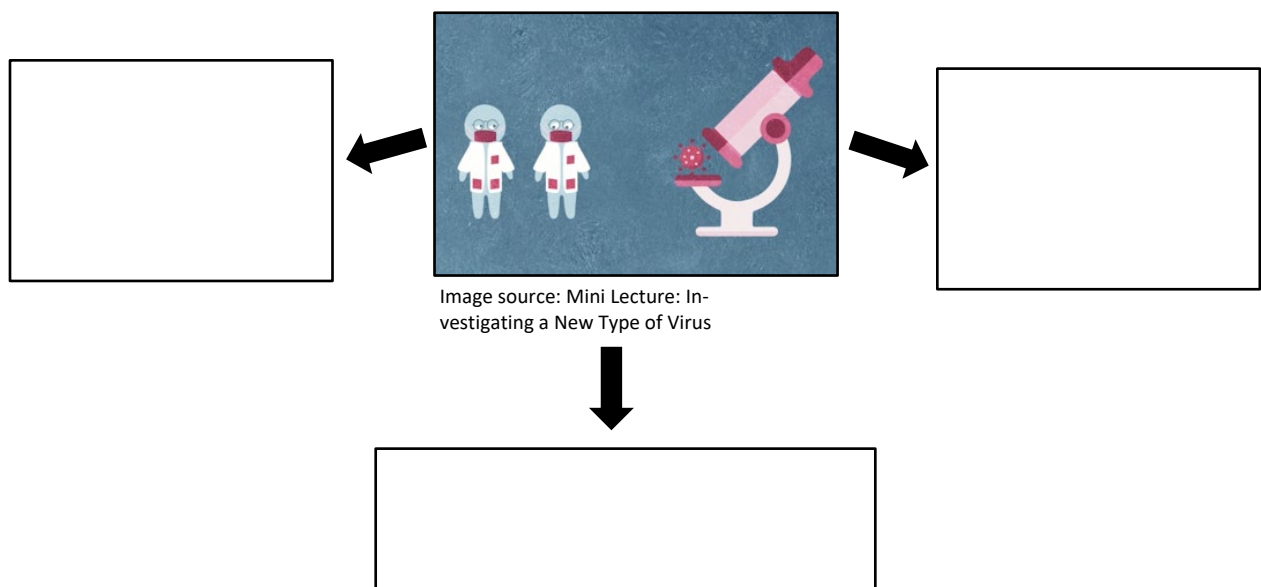
First watch the Mini Lecture video, chap. 1 *Investigating a New Type of Virus* (scan the QR code to go directly to the Mini Lecture or follow the link <https://youtu.be/5MtAzQeJbDU>).



Then complete the following tasks individually with the help of the video. Write down your results on a digital pinboard (for example <https://www.taskcards.de/#/home/start>).

The starting point of scientific literacy is to outline the problem in order to derive further steps to solve the problem. This was also the case with the Corona pandemic: First, the specific mechanisms and modes of action of the Corona virus had to be researched.

1. Note when the novel corona virus first appeared.
2. Note when and by whom the spread of the Corona virus was declared a pandemic.
3. After the pandemic outbreak, scientists had to quickly research more information about the novel Corona virus to prevent its spread. Name the topics that needed to be researched.



Also add the topics back to the pinboard.

4. The pressure on science in the Corona pandemic was very high because results were needed quickly to protect the population. Briefly describe how the scientists were able to deliver results so quickly!
5. After identifying the issues, scientists prioritise them, i.e. they determine the order in which the issues will be addressed. Name the highest priority topic during the Corona pandemic.
6. Vaccines protect against diseases. Due to their mode of action, there are different vaccine groups. Name them briefly!

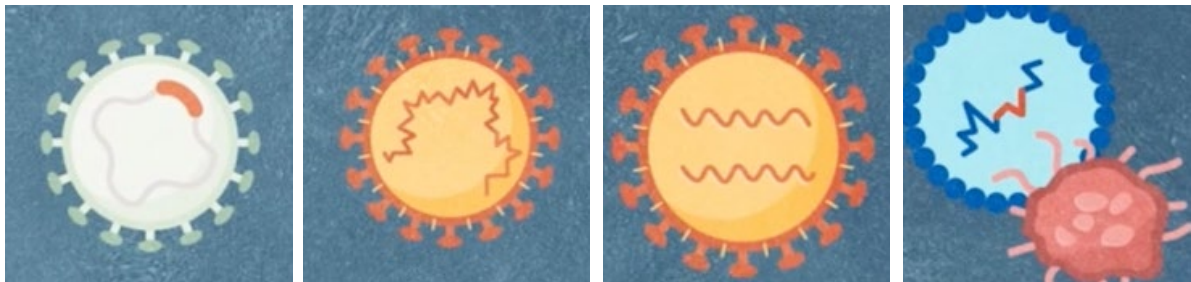


Image source: Mini Lecture: Investigating a New Type of Virus

7. In addition to vaccine research, scientists also worked on other topics that were important during the Corona pandemic. Name them!



Image source: Mini Lecture: Investigating a New Type of Virus

8. Name which sub-science should play a greater role according to Robert Schiller and consider why this makes sense.

To complete the next tasks, watch the Mini Lecture video: chap. 3 *Important Realizations for Global Crises* (scan the QR code to go directly to the Mini Lecture or follow the link <https://youtu.be/9KxVzSuGeY8>).



Complete the tasks individually with the help of the video. Add your results to the digital pinboard.

9. Explain what need arose from the Corona crisis.
10. Name the three building blocks that can help science respond successfully to future crises!
11. Finally, work in pairs to compare the results you have collected from the pinboard.

Photo credit: <https://www.mediatheque.lindau-nobel.org/recordings/39464>