



Science Education in the Light of COVID-19

The Contribution of History, Philosophy and Sociology of Science

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Abstract

In this position paper, I examine how the history, philosophy and sociology of science (HPS) can contribute to science education in the era of the COVID-19 pandemic. I discuss shortcomings in the ways that history is often used in school science, and examine how knowledge of previous pandemics might help in teaching about COVID-19. I look at the potential of issues to do with measurement in the context of COVID-19 (e.g. measurement of mortality figures) to introduce school students to issues about philosophy of science, and I show how COVID-19 has the affordance to broaden and deepen the moral philosophy that students typically meet in biology lessons. COVID-19 also provides opportunities to introduce students to sociological ways of thinking, examining data and questioning human practices. It can also enable students to see how science, economics and politics inter-relate. In the final part of the paper, I suggest that there are strong arguments in favour of an interdisciplinary approach in tackling zoonoses like COVID-19 and that there is much to be said for such interdisciplinarity in school science lessons when teaching about socio-scientific issues and issues intended to raise scientific literacy.

Keywords COVID-19 · History of science · Nature of science · Philosophy of science · Sociology · Interdisciplinarity

1 Context

I am primarily a biology educator, and when considering the adequacy of school science education in a time of COVID-19, it is tempting to wring my hands and complain that when I started my school teaching career in the 1980s, we did large amounts of teaching about disease. We taught at secondary level about a whole range of human infectious diseases, with detailed life cycles showing the roles of intermediate hosts and the importance of animal-human transmission; we taught about how infectious diseases could be tackled by prevention (e.g. nets for malaria) as well as treatment

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Dissertations On The Progress Of Knowledge History Philosophy And Sociology Of Science

Marco Cascella



Dissertations On The Progress Of Knowledge History Philosophy And Sociology Of Science:

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Table of Contents Dissertations On The Progress Of Knowledge History Philosophy And Sociology Of Science

1. Understanding the eBook Dissertations On The Progress Of Knowledge History Philosophy And Sociology Of Science
 - The Rise of Digital Reading Dissertations On The Progress Of Knowledge History Philosophy And Sociology Of Science
 - Advantages of eBooks Over Traditional Books
2. Identifying Dissertations On The Progress Of Knowledge History Philosophy And Sociology Of Science
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Dissertations On The Progress Of Knowledge History Philosophy And Sociology Of Science
 - User-Friendly Interface
4. Exploring eBook Recommendations from Dissertations On The Progress Of Knowledge History Philosophy And

Sociology Of Science

- Personalized Recommendations
- Dissertations On The Progress Of Knowledge History Philosophy And Sociology Of Science User Reviews and Ratings
- Dissertations On The Progress Of Knowledge History Philosophy And Sociology Of Science and Bestseller Lists

5. Accessing Dissertations On The Progress Of Knowledge History Philosophy And Sociology Of Science Free and Paid eBooks

- Dissertations On The Progress Of Knowledge History Philosophy And Sociology Of Science Public Domain eBooks
- Dissertations On The Progress Of Knowledge History Philosophy And Sociology Of Science eBook Subscription Services
- Dissertations On The Progress Of Knowledge History Philosophy And Sociology Of Science Budget-Friendly Options

6. Navigating Dissertations On The Progress Of Knowledge History Philosophy And Sociology Of Science eBook Formats

- ePub, PDF, MOBI, and More
- Dissertations On The Progress Of Knowledge History Philosophy And Sociology Of Science Compatibility with Devices
- Dissertations On The Progress Of Knowledge History Philosophy And Sociology Of Science Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Dissertations On The Progress Of Knowledge History Philosophy And Sociology Of Science
- Highlighting and Note-Taking Dissertations On The Progress Of Knowledge History Philosophy And Sociology Of Science
- Interactive Elements Dissertations On The Progress Of Knowledge History Philosophy And Sociology Of Science

8. Staying Engaged with Dissertations On The Progress Of Knowledge History Philosophy And Sociology Of Science

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Dissertations On The Progress Of Knowledge History Philosophy And Sociology Of Science

9. Balancing eBooks and Physical Books Dissertations On The Progress Of Knowledge History Philosophy And Sociology

Of Science

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Dissertations On The Progress Of Knowledge History Philosophy And Sociology Of Science

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Dissertations On The Progress Of Knowledge History Philosophy And Sociology Of Science

- Setting Reading Goals Dissertations On The Progress Of Knowledge History Philosophy And Sociology Of Science
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Dissertations On The Progress Of Knowledge History Philosophy And Sociology Of Science

- Fact-Checking eBook Content of Dissertations On The Progress Of Knowledge History Philosophy And Sociology Of Science
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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