



**CAMBRIDGE**  
UNIVERSITY PRESS

20% Discount on this title

Expires 28 February 2023

# The Cambridge Handbook of the Learning Sciences

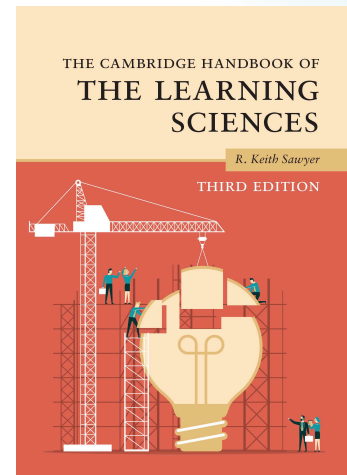
3rd edition

**Edited by R. Keith Sawyer**

University of North Carolina, Chapel Hill

The interdisciplinary field of the learning sciences encompasses educational psychology, cognitive science, computer science, and anthropology, among other disciplines. *The Cambridge Handbook of the Learning Sciences*, first published in 2006, is the definitive introduction to this innovative approach to teaching, learning, and educational technology. In this significantly revised third edition, leading scholars incorporate the latest research to provide seminal overviews of the field. This research is essential in developing effective innovations that enhance student learning - including how to write textbooks, design educational software, prepare effective teachers, and organize classrooms. The chapters illustrate the importance of creating productive learning environments both inside and outside school, including after school clubs, libraries, and museums. The *Handbook* has proven to be an essential resource for graduate students, researchers, consultants, software designers, and policy makers on a global scale.

Preface; 1. An introduction to the learning sciences; Part I. Foundations: 2. Foundations of the learning sciences; 3. Scaffolding; 4. Project-based learning; 5. Metacognition and self-regulated learning; 6. A history of conceptual change research: Threads and fault lines; 7. Learning in activity; 8. Cognitive apprenticeship; Part II. Methodologies: 9. Design-based research: A methodological toolkit for engineering change; 10. Analyzing collaboration; 11. Microgenetic methods; 12. A learning sciences perspective on the design and use of assessment in education; 13. Learning analytics and educational data mining; Part III. Grounding Technology in the Learning Sciences: 14. Videogames and learning; 15. Embodiment and embodied design; 16. Tangible and Full-body interfaces in learning; 17. Augmented reality in the learning sciences; 18. Mobile learning; Part IV. Learning Together: 19. Knowledge building and knowledge creation; 20. Computer-supported collaborative learning; 21. Arguing to learn; 22. Informal learning in museums; Part V. Learning Disciplinary Knowledge: 23. Research in mathematics education: What can it teach us about human learning?; 24. Science education and the learning sciences: A coevolutionary connection; 25. Complex systems and the learning sciences: Educational, theoretical, and methodological implications; 26. Learning history; 27. Learning to be literate; 28. Arts education and the learning sciences; 29. Learning as a cultural process: Achieving equity through diversity; 30. Designing for meaningful learning: Interest, motivation, and engagement; 31. Advances in teacher learning research in the learning sciences; 32. Learning sciences and policy: A decade of mutual engagement; 33. The learning sciences in the 2020s: Implications for schools and beyond.



**April 2022**

253 x 177 mm c.800pp

Hardback 978-1-108-84098-9

<i>Original price</i>	<i>Discount price</i>
-----------------------	-----------------------

£150.00	£120.00
---------	---------

\$195.00	\$156.00
----------	----------

Paperback 978-1-108-74466-9

<i>Original price</i>	<i>Discount price</i>
-----------------------	-----------------------

£54.99	£43.99
--------	--------

\$69.99	\$55.99
---------	---------



[www.cambridge.org/alerts](http://www.cambridge.org/alerts)

For the latest in your field

For more information, and to order, visit:

[www.cambridge.org/9781108744669](http://www.cambridge.org/9781108744669)

and enter the code TCHLS2022 at the checkout