Research and Field Skills



1.

Derry GN. What is Science? (What science is and how it works: Prologue). What science is and how it works [Internet]. Princeton, N.J.: Princeton University Press; 1999. Available from: https://ebookcentral.proquest.com/lib/uea/detail.action?docID=581580

2.

Leedy PD, Ormrod JE. What is research? (Practical research: planning and design: Ch 1). Practical research: planning and design [Internet]. 11th ed. Boston: Pearson; 2015. Available from: https://ebookcentral.proquest.com/lib/uea/detail.action?milDocID=887036

3.

Marder MP. Curiosity and research (Research methods for science: Ch 1). Research methods for science [Internet]. Cambridge: Cambridge University Press; 2011. Available from: https://ebookcentral.proquest.com/lib/uea/detail.action?milDocID=297821

4.

Hulme M. The performance of science (Why we disagree about climate change: understanding controversy, inaction and opportunity: Ch 3). Why we disagree about climate change: understanding controversy, inaction and opportunity. Cambridge: Cambridge University Press; 2009.

5.

Derry GN. Difficult and important questions: science, values and ethics (What science is and how it works: Ch 11). What science is and how it works [Internet]. Princeton, N.J.: Princeton University Press; 1999. Available from:

https://ebookcentral.proquest.com/lib/uea/detail.action?docID=581580

6.

Derry GN. Nature's Jigsaw (What science is and how it works: Ch 2). What science is and how it works [Internet]. Princeton, N.J.: Princeton University Press; 1999. Available from: https://ebookcentral.proguest.com/lib/uea/detail.action?docID=581580

7.

Derry GN. Thinking straight: evidence, reason and critical evaluation (What science is and how it works: Ch 7). What science is and how it works [Internet]. Princeton, N.J.: Princeton University Press; 1999. Available from:

https://ebookcentral.proquest.com/lib/uea/detail.action?docID=581580

8.

How Science Changes - The Atlantic [Internet]. Available from: http://www.theatlantic.com/technology/archive/2012/12/how-science-changes/266145/

9.

Funtowicz SO, Ravetz JR. Science for the post-normal age. Futures. 1993 Sep;25(7):739–755.

10.

Stuart Firestein: The pursuit of ignorance | TED Talk | TED.com [Internet]. Available from: https://www.ted.com/talks/stuart_firestein_the_pursuit_of_ignorance

11.

Andrews JE. An introduction to environmental chemistry [Internet]. 2nd ed. Malden, Mass: Blackwell; 2004. Available from:

http://www.myilibrary.com/browse/open.asp?id=237121&entityid=https://login.uea.ac.uk/entity

Leedy PD, Ormrod JE. The problem: the heart of the research process (Practical research: planning and design: Ch 3). Practical research: planning and design [Internet]. 11th ed.

Boston: Pearson; 2015. Available from:

https://ebookcentral.proguest.com/lib/uea/detail.action?milDocID=887036

13.

Sutherland WJ. Planning a research programme (Ecological census techniques: Ch. 1). Ecological census techniques: a handbook [Internet]. Cambridge University Press; 2006. Available from: https://ebookcentral.proguest.com/lib/uea/detail.action?docID=268225

14.

Marder MP. Overview of experimental analysis and design (Research methods for science: Ch 2). Research methods for science [Internet]. Cambridge: Cambridge University Press; 2011. Available from:

https://ebookcentral.proguest.com/lib/uea/detail.action?milDocID=297821

15.

Watts S, Halliwell L. The Good Scientist (Essential environmental science: methods & techniques: Ch. 1). Essential environmental science: methods & techniques [Internet]. London: Routledge; 1996. Available from: https://ebookcentral.proguest.com/lib/uea/detail.action?milDocID=9894

16.

Goldacre B. Bad science. [New ed.]. London: Harper Perennial; 2009.

17.

Kneale P. Constructing an argument (Study skills for geography, earth and environmental science students: Ch. 11). Study skills for geography, earth and environmental science students [Internet]. 3rd ed. London: Hodder Education; 2011. Available from: https://ebookcentral.proguest.com/lib/uea/detail.action?docID=712854

18.

Leedy PD, Ormrod JE. Planning your research project (Practical research: planning and design: Ch 5). Practical research: planning and design [Internet]. Eleventh edition. Boston:

Pearson; 2015. Available from:

https://ebookcentral.proquest.com/lib/uea/detail.action?milDocID=887036

19.

Watts S, Halliwell L. Sampling (Essential environmental science: methods & techniques: Ch. 2). Essential environmental science: methods & techniques [Internet]. London: Routledge; 1996. Available from:

https://ebookcentral.proguest.com/lib/uea/detail.action?docID=179639

20.

Watts S, Halliwell L. Ecological fieldwork methods (Essential environmental science: methods & techniques: Ch 8). Essential Environmental Science: Methods & Techniques [Internet]. London: Routledge; 1996. Available from: https://ebookcentral.proquest.com/lib/uea/detail.action?milDocID=9894

21.

Rice S. Sampling in Geography (Key methods in geography: Ch 17). Key methods in geography [Internet]. 3rd ed. London: SAGE; 2016. Available from: https://app.talis.com/textbooks/9781473908970

22.

Visionlearning | Process of Science | Data Analysis and Interpretation [Internet]. Available from:

http://www.visionlearning.com/en/library/Process-of-Science/49/Data-Analysis-and-Interpretation/154

23.

Field R. Data handling & presentation (Key methods in geography: Ch 21). In: Clifford NJ, Cope M, Gillespie T, French S, editors. Key methods in geography [Internet]. Third edition. Los Angeles: SAGE; 2016. Available from: https://app.talis.com/textbooks/9781473908970

24.

Visionlearning | Process of Science | Using Graphs and Visual Data in Science [Internet].

Available from:

http://www.visionlearning.com/en/library/Process-of-Science/49/Using-Graphs-and-Visual-Data-in-Science/156

25.

Berinato S. Good charts: the HBR guide to making smarter, more persuasive data visualizations. Boston, Massachusetts: Harvard Business Review Press; 2016.

26.

Few S. Show me the numbers: designing tables and graphs to enlighten. Second edition. El Dorado Hills, California: Analytics Press; 2012.

27.

Tufte ER. The visual display of quantitative information. Second edition. Cheshire, Connecticut: Graphics Press; 2013.

28.

Improving your graph: a case study [Internet]. Available from: http://baryon.be/blog/2016/08/improving-your-graph-a-case-study/

29.

Watts S, Halliwell L. Social surveys (Essential environmental science: methods & techniques: Ch 9). Essential environmental science: methods & techniques [Internet]. London: Routledge; 1996. Available from: https://ebookcentral.proquest.com/lib/uea/detail.action?milDocID=9894

30.

Parfitt J. Questionnaire design & sampling (Methods in Human Geography: Ch 6). Methods in human geography: a guide for students doing a research project [Internet]. 2nd ed. Harlow: Pearson/Prentice-Hall; 2005. Available from: https://ebookcentral.proguest.com/lib/uea/detail.action?docID=1461044

31.

McLafferty SL. Conducting Questionnaire Surveys (Key methods in geography: Ch 6). In: Clifford NJ, Cope M, Gillespie T, French S, editors. Key methods in geography [Internet]. Third edition. Los Angeles: SAGE; 2016. Available from: https://app.talis.com/textbooks/9781473908970

32.

Visionlearning | Process of Science | Scientific Ethics [Internet]. Available from: http://www.visionlearning.com/en/library/Process-of-Science/49/Scientific-Ethics/161

33.

Resnik DB. What is Ethics in Research and Why is it Important? [Internet]. [US] Naational Institute of Environmental Health Sciences; Available from: http://www.niehs.nih.gov/research/resources/bioethics/whatis/

34.

Oliver P. The student's guide to research ethics [Internet]. 2nd ed. Maidenhead, Berkshire: Open University Press; 2010. Available from: https://ebookcentral.proguest.com/lib/uea/detail.action?docID=557103

35.

Marder MP. Overview of experimental analysis and design (Research methods for science: Ch 2). Research methods for science [Internet]. Cambridge: Cambridge University Press; 2011. Available from:

https://ebookcentral.proquest.com/lib/uea/detail.action?milDocID=297821

36.

Leedy PD, Ormrod JE. Planning your research project (Practical research: planning and design: Ch 5). Practical research: planning and design [Internet]. 11th ed. Upper Saddle River, N.J.: Prentice Hall; 2015. Available from: https://ebookcentral.proguest.com/lib/uea/detail.action?milDocID=887036

Risk assessments (Royal Geographical Society guidance) [Internet]. Available from: https://www.rgs.org/in-the-field/fieldwork-in-schools/fieldwork-safety-and-planning/risk-ass essments/

38.

Risk Assessment | STEM [Internet]. Available from: https://www.stem.org.uk/elibrary/resource/31202

39.

Jensen JR, Jensen RR. Georeferencing (Introductory geographic information systems: Ch 2). Introductory geographic information systems. International ed. Boston: Pearson; 2013.

40.

Kennedy MD. Some concepts that underpin GIS (Introducing geographic information systems with ArcGIS: a workbook approach to learning GIS: Ch 1). Introducing geographic information systems with ArcGIS: a workbook approach to learning GIS [Internet]. Third edition. Hoboken, New Jersey: John Wiley & Sons; 2013. Available from: https://ebookcentral.proquest.com/lib/uea/detail.action?docID=875846

41.

Monmonier MS. Elements of the map (How to lie with maps: Ch 2). How to lie with maps. 2nd ed. Chicago: University of Chicago Press; 1996.

42.

Monmonier MS. Map generalization: little white lies and lots of them (How to lie with maps: Ch 3). How to lie with maps. 2nd ed. Chicago: University of Chicago Press; 1996.

43.

Kennedy M. Products of a GIS: Maps and Other Information (Introducing geographic information systems with ArcGIS: a workbook approach to learning GIS: Ch 3). Introducing geographic information systems with ArcGIS: a workbook approach to learning GIS [Internet]. Third edition. Hoboken, New Jersey: John Wiley & Sons; 2013. Available from: https://ebookcentral.proquest.com/lib/uea/detail.action?docID=875846

44.

Jones C (Kate) E. Cartographic Theory and Principles. Interacting with geospatial technologies [Internet]. Chichester, West Sussex, UK: John Wiley; 2010. p. 37–65. Available from: http://doi.wiley.com/10.1002/9780470689813.ch3

45.

Haklay M. Colour figures for Cartographic Theory and Principles (Interacting with Geospatial Technologies: Ch 3). Interacting with geospatial technologies [Internet]. Chichester, West Sussex, UK: John Wiley; 2010. p. c1–c16. Available from: http://doi.wiley.com/10.1002/9780470689813.ins

46.

Wood D, Fels J. The natures of maps: cartographic constructions of the natural world. Chicago: University of Chicago Press; 2008.

47.

Brotton J. A history of the world in twelve maps. London: Allen Lane; 2012.

48.

Longley P, Goodchild MF, Maguire DJ. Georeferencing: (Geographic information science & systems: Ch 4). Geographic information science & systems [Internet]. Fourth edition. Hoboken, NJ: Wiley; 2015. Available from: https://app-knovel-com.uea.idm.oclc.org/web/toc.v/cid:kpGISSE001/viewerType:toc//root_slug:geographic-information-science?kpromoter=marc

49.

Longley P, Goodchild MF, Maguire DJ. Geographic information: science, systems and society (Geographic information science & systems: Ch 1). Geographic information science & systems [Internet]. Fourth edition. Hoboken, NJ: Wiley; 2015. Available from: https://app.knovel.com/web/toc.v/cid:kpGISSE001/viewerType:toc//root_slug:geographic-information-science?kpromoter=marc

Jensen JR, Jensen RR. Introduction to GIS (Introductory geographic information systems: Ch 1). Introductory geographic information systems. International ed. Boston: Pearson; 2013.

51.

Jensen JR, Jensen RR. Spatial data models and databases (Introductory geographic information systems: Ch 5). Introductory geographic information systems. International ed. Boston: Pearson; 2013.

52.

Longley P, Goodchild MF, Maguire DJ. Representing geography (Geographic information science & systems: Ch 3). Geographic information science & systems [Internet]. Fourth edition. Hoboken, NJ: Wiley; 2015. Available from: https://app.knovel.com/web/toc.v/cid:kpGISSE001/viewerType:toc//root_slug:geographic-information-science?kpromoter=marc

53.

Baban SMJ, Flannagan J. Developing and Implementing GIS-assisted Constraints Criteria for Planning Landfill Sites in the UK. Planning Practice and Research. 1998 May;13(2):139–151.

54.

Thornton LE, Pearce JR, Macdonald L, Lamb KE, Ellaway A. Does the choice of neighbourhood supermarket access measure influence associations with individual-level fruit and vegetable consumption? A case study from Glasgow. International Journal of Health Geographics. 2012;11(1).

55.

Bagan H, Yamagata Y. Landsat analysis of urban growth: How Tokyo became the world's largest megacity during the last 40years. Remote Sensing of Environment. 2012 Dec;127:210–222.

56.

Comber A, Brunsdon C, Green E. Using a GIS-based network analysis to determine urban

greenspace accessibility for different ethnic and religious groups. Landscape and Urban Planning. 2008 May;86(1):103–114.

57.

Lovett AA, Parfitt JP, Brainard JS. Using GIS in Risk Analysis: A Case Study of Hazardous Waste Transport. Risk Analysis. 1997 Oct;17(5):625-633.

58.

Brown LJ, Lamhonwah D, Murphy BL. Projecting a spatial shift of Ontario's sugar maple habitat in response to climate change: A GIS approach. The Canadian Geographer / Le Géographe canadien. 2015 Sep;59(3):369–381.

59.

Liang Y, Liu L. Modeling urban growth in the middle basin of the Heihe River, northwest China. Landscape Ecology. 2014 Dec;29(10):1725–1739.

60.

Kneale PE. Practical reports, laboratory and field notebooks (Study skills for geography, earth and environmental science students: Ch 18). Study skills for geography, earth and environmental science students [Internet]. 3rd ed. London: Hodder Education; 2011. Available from: https://ebookcentral.proguest.com/lib/uea/detail.action?docID=712854

61.

Leedy PD, Ormrod JE. Preparing the research report (Practical research: planning and design: Ch 12). Practical research: planning and design [Internet]. Eleventh edition. Boston: Pearson; 2015. Available from:

https://ebookcentral.proquest.com/lib/uea/detail.action?milDocID=887036

62.

Bradford M. Writing essays, reports and dissertations (Key methods in geography: Ch 31). In: Clifford NJ, Cope M, Gillespie T, French S, editors. Key methods in geography [Internet]. Third edition. Los Angeles: SAGE; 2016. Available from: https://app.talis.com/textbooks/9781473908970

63.

Kneale PE. Effective essay skills (Study skills for geography, earth and environmental science students: Ch 17). Study skills for geography, earth and environmental science students [Internet]. 3rd ed. London: Hodder Education; 2011. Available from: https://ebookcentral.proquest.com/lib/uea/detail.action?docID=712854

64.

Greetham B. How to write better essays [Internet]. Fourth edition. London: Macmillan Education; 2018. Available from:

https://ebookcentral.proguest.com/lib/uea/detail.action?docID=6235046

65

Shields M. Essay writing: a student's guide [Internet]. Los Angeles, [Calif.]: SAGE; 2010. Available from: https://ebookcentral.proquest.com/lib/uea/detail.action?docID=743723

66.

The most commonly misused words and phrases in scientific writing | Adams Kaul [Internet]. Available from:

https://adamskaul.wordpress.com/2014/05/12/201452the-most-commonly-misused-words-and-phrases-in-scientific-writing/

67.

Top Ten style checks for PhDs or creative non-fiction writers [Internet]. Available from: https://medium.com/advice-and-help-in-authoring-a-phd-or-non-fiction/top-ten-style-checks-for-phds-or-creative-non-fiction-writers-9ca63542f5d#.yrmib5szu

68.

Lesson 3: Scientific Writing - Concision and Simplicity (Duke University) [Internet]. Available from: https://cgi.duke.edu/web/sciwriting/index.php?action=lesson3

Style Points for Scientific Writing (University of Connecticut Writing Center) [Internet]. Available from:

https://web2.uconn.edu/writingcenter/pdf/Style Points for Scientific Writing.pdf

70.

Scientific Writing Resource - Duke University [Internet]. Available from: https://cgi.duke.edu/web/sciwriting/index.php?action=passive_voice

71.

Effective Writing | Learn Science at Scitable [Internet]. Available from: https://www.nature.com/scitable/topicpage/effective-writing-13815989

72.

Active vs. Passive Voice in Scientific Writing [Internet]. Available from: https://www.acs.org/content/dam/acsorg/events/professional-development/Slides/2015-04-09-active-passive.pdf