Representative Readings through which we study the Scientific Enterprise

Boyle, “The Corpuscular or Mechanical Philosophy”
Galileo, “The Assayer”
Newton, The Principia and Opticks
Leibniz, Discourse on Metaphysics and New Essays in Human Understanding
Darwin, On the Origin of Species
Charles Singer, A Short History of Scientific Ideas to 1900

Sinclair Lewis, Arrowsmith
Einstein, Ideas and Opinions and Relativity: The Special and the General Theory
Heidegger, Question Concerning Technology
Heisenberg, Physics and Philosophy
Kuhn, Structure of Scientific Revolutions
W.V. Quine, Pursuit of Truth
Karl Popper, Objective Knowledge
Bertrand Russell, “The Rise of Science,” in History of Western Philosophy
Carl Sagan, “Science and Hope,” The Demon-Haunted World

Carl Hempel, Philosophy of Natural Science
Peter Bowler and Iwan Morus, Making Modern Science: An Historical Survey
Samir Okasha, Philosophy of Science: A Very Short Introduction
David C. Lindberg, The Beginnings of Western Science, 2nd ed.
Stephen F. Mason, A History of the Sciences

Theodore Schick, Jr. & Lewis Vaughn, How to Think About Weird Things (2014)
John Gribbin, Almost Everyone’s Guide to Science
Rom Harré, Great Scientific Experiments
George Johnson, The Ten Most Beautiful Experiments
Gili Drori et al., Science in the Modern World Polity