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Unit 4 Philosophy of Science

Goodman, N. *Fact, Fiction and Forecast, 3rd ed.*, Bobbs-Merrill 1973: the locus classicus of the famous 'grue paradox' and the starting point for many discussions of induction

Hempel, C. G. *Aspects of Scientific Explanation*, Collier-Macmillan 1965: statement of the problems of confirmation and the 'paradox of the ravens'

O'Hear, A. *An Introduction to the Philosophy of Science*, Clarendon Press 1989: chatty, detailed historical introduction

Papineau, D. *The Philosophy of Science*, OUP 1996: contains many valuable essays on topics of philosophy of science and methodology

Popper, K. *Objective Knowledge*, OUP 1979: statement of Popper's view that science proceeds not by induction but by hypotheses and falsifications

Ruben, D.-H. (ed.) *Explanation*, OUP 1993: a recent collection of essays on explanation, some hard but all useful

Russell, B. *Problems of Philosophy* (various editions): a simple, interesting description of the problem of induction

Swinburne, R. (ed.) *The Justification of Induction*, OUP 1974: a diverse and interesting collection of essays

Okasha, S. *Philosophy of Science: a Very Short Introduction*, OUP 2002