

Theme of Lecture	Topics in class (videos numbered)	Readings after video lecture (= preparation for tutorial)
Lecture 2: Scientific Reasoning and Methodology II	2.1 Introduction 2.2 Can we prove scientific knowledge? [Socratic] 2.3 Epistemology: How do we prove scientific knowledge? 2.4 Epistemology: Rationalism 2.5 Examples of first principles 2.6 The logic of scientific reasoning 2.7 Epistemology: Empiricism 2.8 Is Empiricism a methodology to prove knowledge? [Socratic] 2.9 Empiricism: Laws and experiments 2.10 Hume on the problem of induction 2.11 Is Problem of Induction relevant to Practice? 2.12 Manipulationism: Can we discover causal relationships?	Ladyman: Ch 3.1-3.4. Slides + notes of class 2. Assignment 1