

SUPPLEMENTAL MATERIAL

Science and Epistemology

Science is a powerful method for understanding the natural world, but it does have its limitations when it comes to addressing certain aspects of epistemology, which is the study of knowledge and how we come to know things. Epistemology encompasses a wide range of topics, including normative, metaphysical, and ethical considerations, which require philosophical and ethical reasoning beyond the empirical methods of science. Therefore, a comprehensive understanding of knowledge and how we come to know things should integrate both scientific insights and philosophical reflections. Here are some points to consider regarding what science can and cannot explain in relation to epistemology.

What Science *Can* Explain

The theological perspective combines all of these key elements mentioned epistemically and adds on the fact that humans have been favored with divine guidance through human messengers who instruct humanity on various aspects of the present and future reality.

■ **Empirical Knowledge:** Science is particularly adept at explaining empirical knowledge, which is knowledge based on observation and measurement. It can provide insights into the physical world, natural phenomena, and the relationships between variables.

■ **Methodology and Process:** Science can clarify the methodologies and processes that contribute to acquiring knowledge. It offers a systematic and evidence-based approach to inquiry, which is valuable for understanding how we accumulate information and make discoveries.

■ **Cognitive Processes:** Science can investigate some aspects of cognitive processes, such as memory, perception, and decision-making. Through psychology and neuroscience, we can gain insights into how our brains process information.

What Science *Cannot* Explain

■ **Normative Questions:** Science can tell us how people acquire knowledge, but it cannot dictate how they should acquire knowledge. Questions about what is justified belief or what constitutes reliable evidence fall into the realm of normative epistemology, which is outside the scope of science.

■ **Metaphysical Questions:** Science is limited to explaining natural phenomena and the physical world. It cannot address questions about the nature of reality, such as whether there are non-physical realms or supernatural entities (God, angels, and the like) that might influence knowledge.

■ **Subjective Experience:** While science can study the physical and observable aspects of consciousness and perception, it cannot fully explain subjective experiences, such as the “qualia” of what it is like to see the color red or taste a particular food. These aspects of consciousness remain philosophically challenging.

■ **Axiomatic Systems:** The foundations of knowledge, including the axioms upon which various knowledge systems are built (e.g., mathematics, logic), are not derived from scientific inquiry. They are taken as self-evident truths, and science relies on them but does not establish them.

■ **Value and Ethics:** Science can inform ethical discussions by providing information about the physical consequences of actions, but it cannot determine what is morally right or wrong. Questions of value and ethics are the domain of moral philosophy.