

Scientific Reasoning Rubric

Scientific reasoning refers to consistent, logical thought patterns that are employed during the process of scientific inquiry, enabling individuals to propose relationships between observed phenomena, design experiments to assess the validity of these relationships, and evaluate the results of these experiments, all using the tools, skills, and techniques of the natural sciences, which include Biology, Chemistry, Physics, Astronomy, Earth Sciences

Scientific Reasoning Criteria	Meets Criteria	Does Not Meet Criteria	Comments
Learners can describe methods of scientific inquiry and apply them to investigating, questioning and solving problems			
Learners describe and carry out experimental procedures and laboratory tasks appropriate to the field			
Learners interpret and communicate scientific information using written, oral and/or graphical means			
Learners describe and analyze one or more relationships among science, technology and society and demonstrate an understanding of scientific applications in everyday life			
Learners demonstrate logical reasoning in explaining natural phenomena, experimental procedures or outcomes, and/or application of scientific or technological concepts.			