



Please note that curriculum connections match general topics covered in this program. Some curriculum connections may not be covered, since programs vary due to student questions, program length, and customized elements. Please contact us with any specific questions or ideas.

Galaxy Cluster - Learning Skills and Curriculum Connections:

Grade 9 Curriculum Expectations:

A1.1: use a scientific research process and associated skills to conduct investigations

A3.2: investigate how science and technology can be used with other subject areas to address real-world problems

A3.3: analyse contributions to science and technology from various communities

E1.1: evaluate social, environmental, and economic impacts of space observation and exploration

E1.2: evaluate how space observation and exploration technologies contribute to our understanding of climate change, natural disasters, and other phenomena

E1.3: assess ways in which technological innovations related to space observation and exploration are applied in various fields, including their contributions to sustainable practices on Earth

E2.1: describe the importance of the Sun and its characteristics, including its role in the solar system and in sustaining life on Earth

E2.2: explain how the Sun's energy causes natural phenomena on Earth, and how these phenomena contribute to renewable energy production

E2.3: summarize observational evidence used to support theories about the origin and evolution of the universe and the solar system, considering diverse ways of knowing

E2.4: describe major components of the solar system and the universe and compare their characteristics

E2.5: quantify distances in the solar system and the universe by applying an understanding of relative distances and sizes and using appropriate units of measure

E2.6: conduct investigations to explain the causes of various astronomical phenomena that can be observed from Earth

Grade 10 Curriculum Expectations:

A1.1: formulate scientific questions about observed relationships, ideas, problems, and/or issues, make predictions, and/or formulate hypotheses to focus inquiries or research

D3.3: describe the natural greenhouse effect, explain its importance for life, and distinguish it from the anthropogenic greenhouse effect

E3.2: identify and label the visible and invisible regions of the electromagnetic spectrum

E3.8: describe properties of light, and use them to explain naturally occurring optical phenomena (e.g., apparent depth, shimmering, a mirage, a rainbow)