

<b>IDAHO Cumulative Science Standard Goals: Grade 8-10</b>	<b>Information &amp; Communication Technology Standards for the State of IDAHO</b>	<b>Big 6</b>
9-10.B.1.6.1 Identify questions and concepts that guide scientific investigations. (649.01a)	3.1 Formulate questions and research strategies based on information needs.	1.1 Define the information problem
9-10.B.1.6.2 Utilize the components of scientific problem solving to design, conduct, and communicate results of investigations. (649.01b)	2.2 Organize and communicate information and ideas effectively to multiple audiences using a variety of media and formats in a way that others can view, use, and assess. 4.1 Use a structured information problem solving process, such as the Big 6, in order to locate, organize, analyze, evaluate, synthesize and use information from a variety of sources and media.	Big 6
9-10.B.1.6.3 Use appropriate technology and mathematics to make investigations. (649.01c)	3.2 Evaluate and select information sources and digital tools based on the appropriateness to specific tasks	2.1 Determine the range of possible sources (brainstorm) 2.2 Evaluate the different possible sources to determine priorities (select the best sources)
	6.2 select and use applications effectively and productively 6.4 transfer current knowledge to learning of new technologies	
	5.1 advocate and practice safe, legal, and responsible use of information and technology 5.3 exhibit a positive attitude toward using technology that supports collaboration, learning, and productivity	
9-10.B.1.6.4 Formulate scientific explanations and models using logic and evidence. (649.01d)	1.3 use models and simulations to explore complex systems	5.1 Organize information from multiple sources.
	1.1 Apply existing knowledge to generate new ideas, products and processes. 4.3 Collect and analyze data and information to identify solutions, make informed decisions, construct new understandings, draw conclusions, and create new knowledge.	
9-10.B.1.6.5 Analyze alternative explanations and models. (649.01e)	4.4 use multiple processes and seek diverse perspectives to explore alternative solutions	6.1 Judge the product
	1.3 Use models and simulations to explore complex systems and issues	
9-10.B.1.6.6 Communicate and defend a scientific argument. (649.01f)	2.2 Organize and communicate information and ideas effectively to multiple audiences using a variety of media and formats in a way that others can view, use and assess. 4.3 Collect and analyze data and information to identify solutions, make informed decisions, construct new understandings, draw conclusions, and create new knowledge.	5.2 Present information
9-10.B.1.6.7 Explain the differences among observations, hypotheses, and theories. (649.01g)	4.3 Collect and analyze data and information to identify solutions, make informed decisions, construct new understandings, draw conclusions, and create new knowledge. 1.1 Apply existing knowledge to generate new ideas, products and processes. 2.1 Inquire, interact, collaborate, and publish with peers, experts, or others employing a variety of digital environments and media.	5.1 Organize information from multiple sources