EXPLORE – Impact of Computing Innovations

CONTENT AREA	PERFORMANCE QUALITY			SCORE
Creating Artifacts: Process and Tools	The computational artifact is non-textual and conveys a minimal, unclear, or otherwise ineffective explanation, illustration or representation of the computing innovation's intended purpose, its function, or its effect. OR The computational artifact is primarily textual and does not simply repeat information supplied in the written response. 4	The computational artifact is primarily non-textual and conveys the computing innovation's intended purpose, its function, or its effect. 8	The computational artifact is primarily non-textual and conveys the computing innovation's intended purpose, its function or its effect in an effective manner, either through richness of detail, breadth of scope, or creative expression. 12	ROW 1
Creating Artifacts: Process and Tools	The response identifies the computing tool(s) and describes development process used to create only part of the computational artifact. 3	The response identifies the computing tool(s) and describes multiple integrated steps in the development process to create the computational artifact. 6	The response identifies the computing tool(s) and describes multiple integrated steps in the development process to create the computational artifact and how the specific features of the computing tool(s) enabled the creation of an appropriate illustration, representation, or explanation of the computing innovation's purpose, function or its effect. 9	ROW 2

CONTENT AREA	PERFORMANCE QUALITY			SCORE
Analyze impact of computing	The response identifies either a beneficial **or** a harmful effect of the computing innovation and relates these to the impact on society, economy, or culture. **Note: Students are describing only one effect. 5	The response identifies and partially explains a beneficial **and** a harmful effect of the computing innovation and relates these to the impact on society, economy, or culture. The explanation lacks detail. **Note: Students must describe both a harmful and a beneficial effect. 10	The response identifies and provides a detailed explanation of a beneficial **and** a harmful effect of the computing innovation and relates these to the impact on society, economy, or culture. **Note: Students must describe both a harmful and a beneficial effect. 15	ROW 3
Analyze data and information	The response identifies the data used in the computing innovation. OR The response identifies a data storage, privacy, or security concern. 4	The response identifies the data used in the computing innovation. AND The response describes a data storage, privacy, or security concern. 8	The response identifies the data used in the computing innovation and describes how the computing innovation uses it as input, as output, or how it is transformed. The response provides a detailed description of a data storage, privacy, or security concern and connects it to the computing innovation. 12	ROW 4
Find and Evaluate Information	Fewer than three references have been provided OR there are no citations. OR Reference information is incomplete. 1	Three complete references have been provided and some references are cited. 2	Three complete references have been provided. All references have been cited. 3	ROW 5