

## Subject Area - 3: Science and Technology and Engineering Education

### Standard Area - 3.4: Technology and Engineering Education

#### Organizing Category - 3.4.B: Technology and Society

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[See Grades 8 - 12](#)

	GRADE 3	GRADE 4	GRADE 5	GRADE 6	GRADE 7	GRADE 8
Effects of Technology	<p><b>3.4.3.B1:</b> Describe how using <b>technology</b> can be good or bad.</p>	<p><b>3.4.4.B1:</b> Describe how <b>technology</b> affects humans in various ways.</p>	<p><b>3.4.5.B1:</b> Explain how the use of <b>technology</b> can have unintended consequences.</p>	<p><b>3.4.6.B1:</b> Describe how economic, political, and cultural issues are influenced by the development and use of <b>technology</b>.</p>	<p><b>3.4.7.B1:</b> Explain how the use of <b>technology</b> can have consequences that affect humans in many ways.</p>	<p><b>3.4.8.B1:</b> Evaluate the societal implications of the management of waste produced by <b>technology</b>.</p>
Technology and Environment	<p><b>3.4.3.B2:</b> Explain how materials are re-used or recycled.</p>	<p><b>3.4.4.B2:</b> Explain how the use of <b>technology</b> affects the environment in good and bad ways.</p>	<p><b>3.4.5.B2:</b> Describe how waste may be appropriately recycled or disposed of to prevent unnecessary harm to the environment.</p>	<p><b>3.4.6.B2:</b> Describe how <b>technologies</b> can be used to repair damage caused by natural disasters and to break down waste from the use of various products and <b>systems</b>.</p>	<p><b>3.4.7.B2:</b> Explain how decisions to develop and use <b>technologies</b> may be influenced by environmental and economic concerns.</p>	<p><b>3.4.8.B2:</b> Compare and contrast decisions to develop and use <b>technologies</b> as related to environmental and economic concerns.</p>
Society and Development of Technology	<p><b>3.4.3.B3:</b> Identify and define products made to meet individual needs versus wants.</p>	<p><b>3.4.4.B3:</b> Explain why new <b>technologies</b> are developed and old ones are improved in terms of needs and wants.</p>	<p><b>3.4.5.B3:</b> Describe how community concerns support or limit technological developments.</p>	<p><b>3.4.6.B3:</b> Interpret how societal and cultural priorities are reflected in technological devices.</p>	<p><b>3.4.7.B3:</b> Describe how <b>invention</b> and <b>innovation</b> lead to changes in society and the creation of new needs and wants.</p>	<p><b>3.4.8.B3:</b> Explain how throughout history, new <b>technologies</b> have resulted from the demands, values, and interests of individuals, businesses, industries, and societies.</p>
Technology and History	<p><b>3.4.3.B4:</b> Illustrate how people have made tools to provide food, clothing, and shelter.</p>	<p><b>3.4.4.B4:</b> Describe how the history of civilization is linked closely to technological development.</p>	<p><b>3.4.5.B4:</b> Identify how the way people live and work has changed history in terms of technology.</p>	<p><b>3.4.6.B4:</b> Demonstrate how new technologies are developed based on people's needs, wants, values, and/ or interests.</p>	<p><b>3.4.7.B4:</b> Explain how many <b>inventions</b> and <b>innovations</b> have evolved by using deliberate and methodical processes of tests and refinements.</p>	<p><b>3.4.8.B4:</b> Explain how societal and cultural priorities and values are reflected in technological devices.</p>