Standard #1 (STL 1) Understand how technology can improve, manage, and help control the natural and human-made environments.

Standard #2 (STL 2) Describe technology as a system with inputs, processes, outputs, impacts, and feedback.

Standard #3 (STL 3, STL 4, STL 7) Understand the relationship of technology to other academic fields, particularly science, math, social studies, and language arts.

Standard #4 (STL 14-20) Describe technology as it is applied in the context of communication, construction, manufacturing, transportation, and related technologies.

Standard #5 (STL 8, STL 11) Work cooperatively and productively in groups to design and use technology to solve technological problems.

Standard #6 (STL 4, STL 6) Identify societal and personal needs and opportunities that can be addressed through technology.

Standard #7 (STL 11) Develop and refine alternate solutions that address technological needs and opportunities.

Standard #8 (STL 6, STL 13) Evaluate and select appropriate solutions that address technological needs and opportunities.

Standard #9 (STL 9, STL 11) Apply engineering principles when planning, developing, implementing, and analyzing technological solutions.

Standard #10 (STL 9, STL 17) Specify solutions to stated needs and opportunities using appropriate technical means.

### 2006 Standards Alignment Chart

<table>
<thead>
<tr>
<th>2006 (Indiana)</th>
<th>Standards For Technological Literacy (national)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard #1 (STL 1) Understand how technology can improve, manage, and help control the natural and human-made environments.</td>
<td>STL #1 Students will develop an understanding of the characteristics and scope of technology</td>
</tr>
<tr>
<td>Standard #2 (STL 2) Describe technology as a system with inputs, processes, outputs, impacts, and feedback.</td>
<td>STL #2 Students will develop an understanding of the core concepts of technology.</td>
</tr>
<tr>
<td>Standard #3 (STL 3, STL 4, STL 7) Understand the relationship of technology to other academic fields, particularly science, math, social studies, and language arts.</td>
<td>STL #3 Students will develop an understanding of the relationships among technologies and the connections between technology and other fields of study.</td>
</tr>
<tr>
<td>Standard #4 (STL 14-20) Describe technology as it is applied in the context of communication, construction, manufacturing, transportation, and related technologies.</td>
<td>STL #4 Students will develop an understanding of the cultural, social, economic, and political effects of technology.</td>
</tr>
<tr>
<td>Standard #5 (STL 8, STL 11) Work cooperatively and productively in groups to design and use technology to solve technological problems.</td>
<td>STL #5 Students will develop an understanding of the effects of technology on the environment.</td>
</tr>
<tr>
<td>Standard #6 (STL 4, STL 6) Identify societal and personal needs and opportunities that can be addressed through technology.</td>
<td>STL #6 Students will develop an understanding of the role of society in the development and use of technology.</td>
</tr>
<tr>
<td>Standard #7 (STL 11) Develop and refine alternate solutions that address technological needs and opportunities.</td>
<td>STL #7 Students will develop an understanding of the influence of technology on history.</td>
</tr>
<tr>
<td>Standard #8 (STL 6, STL 13) Evaluate and select appropriate solutions that address technological needs and opportunities.</td>
<td>STL #8 Students will develop an understanding of the attributes of design.</td>
</tr>
<tr>
<td>Standard #9 (STL 9, STL 11) Apply engineering principles when planning, developing, implementing, and analyzing technological solutions.</td>
<td>STL #9 Students will develop an understanding of engineering design.</td>
</tr>
<tr>
<td>Standard #10 (STL 9, STL 17) Specify solutions to stated needs and opportunities using appropriate technical means.</td>
<td>STL #10 Students will develop an understanding of the role of troubleshooting, research and development, invention and innovation, and experimentation in problem solving.</td>
</tr>
</tbody>
</table>
**Standard #11** (STL 14-20) Select the appropriate resources needed to produce and operate communication, construction, manufacturing, transportation, and other technological systems and artifacts.

**Standard #12** (STL 2, STL 14-20) Select the appropriate processes needed to produce or operate products, structures, and systems.

**Standard #13** (STL 12, STL 14-20) Efficiently use appropriate processes related to communication, engineering, production, transportation, and similar devices and systems.

**Standard #14** (STL 12, STL 13) Appropriately operate technological devices and systems.

**Standard #15** (STL 5) Describe the relationships among entrepreneurship, business enterprises, and technology.

**Standard #16** (STL 12) Select the appropriate devices and systems to meet personal and societal needs.

**Standard #17** (STL 10) Recognize the need for servicing and repairing technological devices and systems.

**Standard #18** (STL 5, STL 13) Properly dispose or recondition worn out and obsolete technological devices.

**Standard #19** (STL 4, STL 5, STL 13) Determine the impact of technological actions on people, society, and the environment.

**Additional Standards Resources**

- **2006 Indiana Technology Education Standards Booklet**:

- **Technology For All Americans Publications & Resources**:

  - STL: Executive Standards Summary
  - STL: Listing of National Content Standards
  - STL: Content for the Study of Technology
  - STL: Student Assessment, Professional Development, Program Standards