

2006 Standards Alignment Chart



Please note: The comparison chart is intended to assist teachers in updating lesson plans to align with national Standards For Technological Literacy (STL). *STL crosswalks may vary per local implementation and course structure.*

2006 (Indiana)

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.

Standards For Technological Literacy (national)

STL #1 Students will develop an understanding of the characteristics and scope of technology

STL #2 Students will develop an understanding of the core concepts of technology.

STL #3 Students will develop an understanding of the relationships among technologies and the connections between technology and other fields of study.

STL #4 Students will develop an understanding of the cultural, social, economic, and political effects of technology.

STL #5 Students will develop an understanding of the effects of technology on the environment.

STL #6 Students will develop an understanding of the role of society in the development and use of technology.

STL #7 Students will develop an understanding of the influence of technology on history.

STL #8 Students will develop an understanding of the attributes of design.

STL #9 Students will develop an understanding of engineering design.

STL #10 Students will develop an understanding of the role of troubleshooting, research and development, invention and innovation, and experimentation in problem solving.

2006 continued...

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 to 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.

STL continued...

STL #11 Students will develop abilities to apply the design process.

STL #12 Students will develop abilities to use and maintain technological products and systems.

STL #13 Students will develop abilities to assess the impact of products and systems.

STL #14 Students will develop an understanding of and be able to select and use medical technologies.

STL #15 Students will develop an understanding of and be able to select and use agricultural and related biotechnologies.

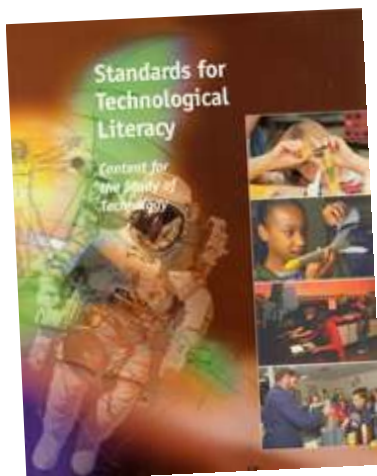
STL #16 Students will develop an understanding of and be able to select and use energy and power technologies.

STL #17 Students will develop an understanding of and be able to select and use information and communication technologies.

STL #18 Students will develop an understanding of and be able to select and use transportation technologies.

STL #19 Students will develop an understanding of and be able to select and use manufacturing technologies.

STL #20 Students will develop an understanding of and be able to select and use construction technologies.



Additional Standards Resources

- **2006 Indiana Technology Education Standards Booklet:**
<http://www.doe.state.in.us/standards/docs-Technology/2006-08-15-TechEd-Stds.pdf>
- **Technology For All Americans Publications & Resources:**
http://www.iteaconnect.org/TAA/Publications/TAA_Publications.html

STL: Executive Standards Summary

STL: Listing of National Content Standards

STL: Content for the Study of Technology

STL: Student Assessment, Professional Development, Program Standards

