

# The 21<sup>st</sup> Century Technology & Information Literate Student Model

- from the *International Society for Technology in Education*

## ▪ **What does a 21<sup>st</sup> Century T&I Literate Student look like?**

### INFORMATION LITERATE

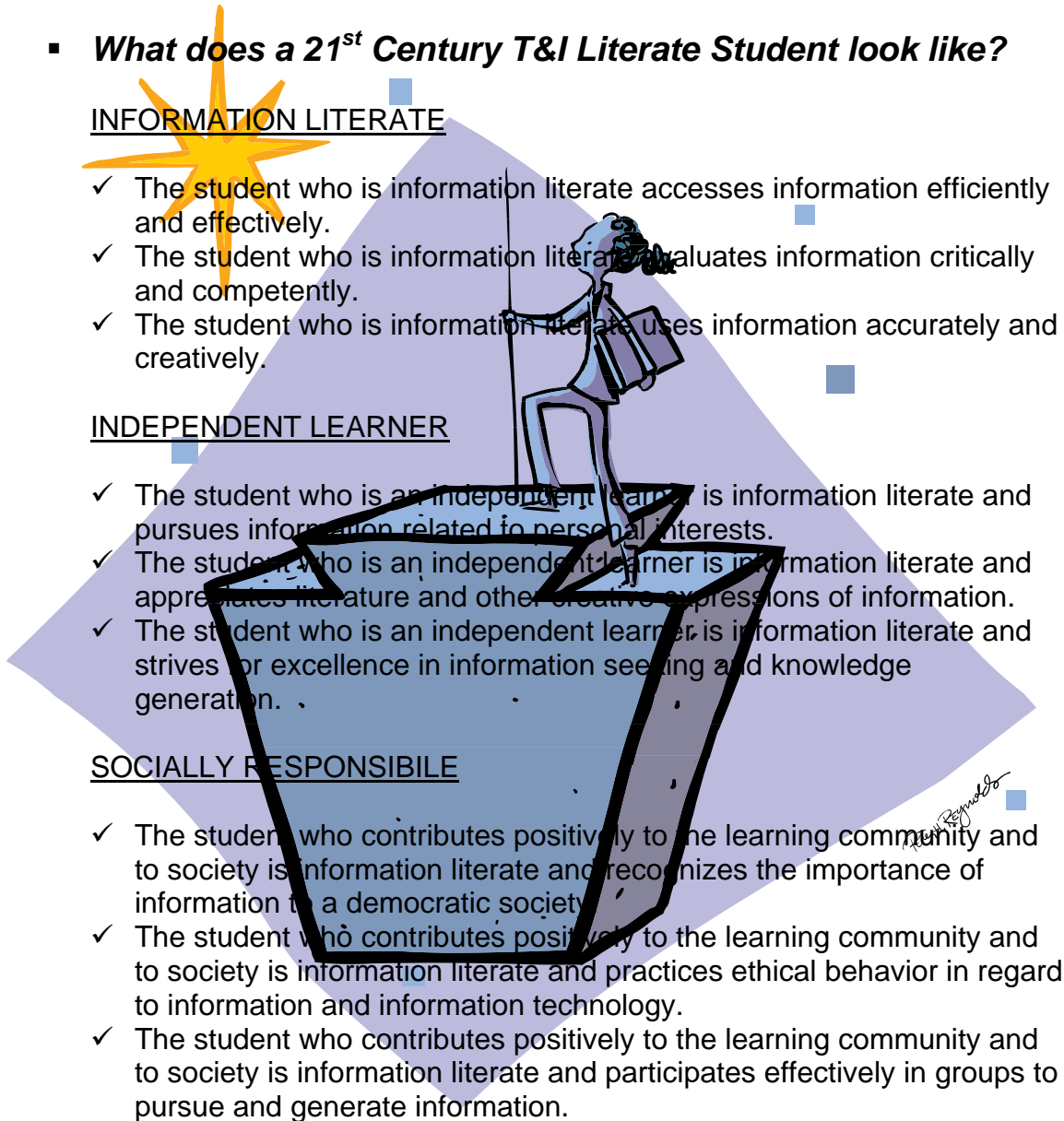
- ✓ The student who is information literate accesses information efficiently and effectively.
- ✓ The student who is information literate evaluates information critically and competently.
- ✓ The student who is information literate uses information accurately and creatively.

### INDEPENDENT LEARNER

- ✓ The student who is an independent learner is information literate and pursues information related to personal interests.
- ✓ The student who is an independent learner is information literate and appreciates literature and other creative expressions of information.
- ✓ The student who is an independent learner is information literate and strives for excellence in information seeking and knowledge generation.

### SOCIALLY RESPONSIBLE

- ✓ The student who contributes positively to the learning community and to society is information literate and recognizes the importance of information to a democratic society.
- ✓ The student who contributes positively to the learning community and to society is information literate and practices ethical behavior in regard to information and information technology.
- ✓ The student who contributes positively to the learning community and to society is information literate and participates effectively in groups to pursue and generate information.



- **What are the standards by which a 21<sup>st</sup> Century T&I Literate Student can be identified?**

### Technology Foundation Standards for Students

#### 1. Basic operations and concepts

- Students demonstrate a sound understanding of the nature and operation of technology systems.
- Students are proficient in the use of technology.

#### 2. Social, ethical, and human issues

- Students understand the ethical, cultural, and societal issues related to technology.
- Students practice responsible use of technology systems, information, and software.
- Students develop positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.

#### 3. Technology productivity tools

- Students use technology tools to enhance learning, increase productivity, and promote creativity.
- Students use productivity tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative works.

#### 4. Technology communications tools

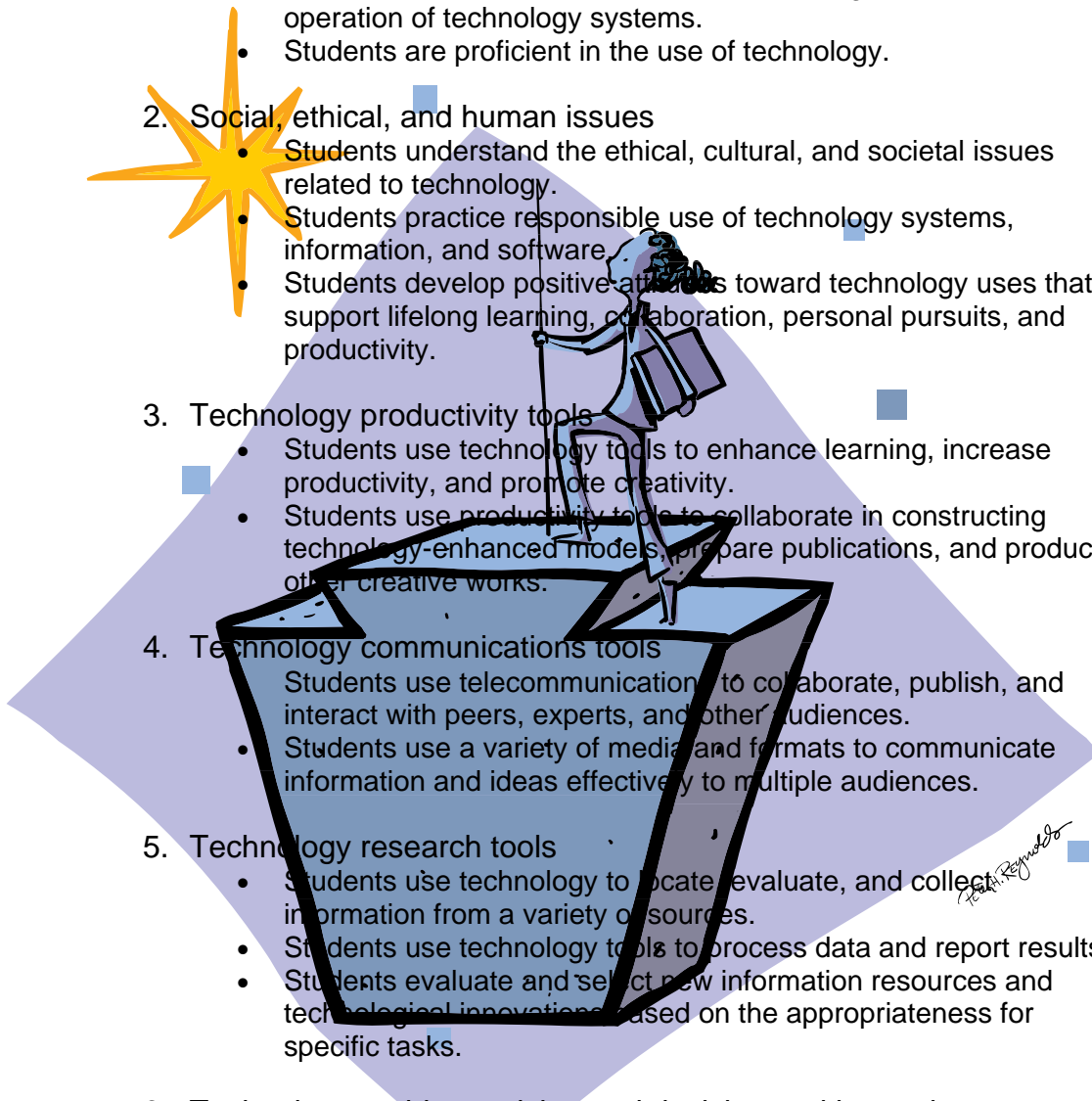
- Students use telecommunication to collaborate, publish, and interact with peers, experts, and other audiences.
- Students use a variety of media and formats to communicate information and ideas effectively to multiple audiences.

#### 5. Technology research tools

- Students use technology to locate, evaluate, and collect information from a variety of sources.
- Students use technology tools to process data and report results.
- Students evaluate and select new information resources and technological innovations based on the appropriateness for specific tasks.

#### 6. Technology problem-solving and decision-making tools

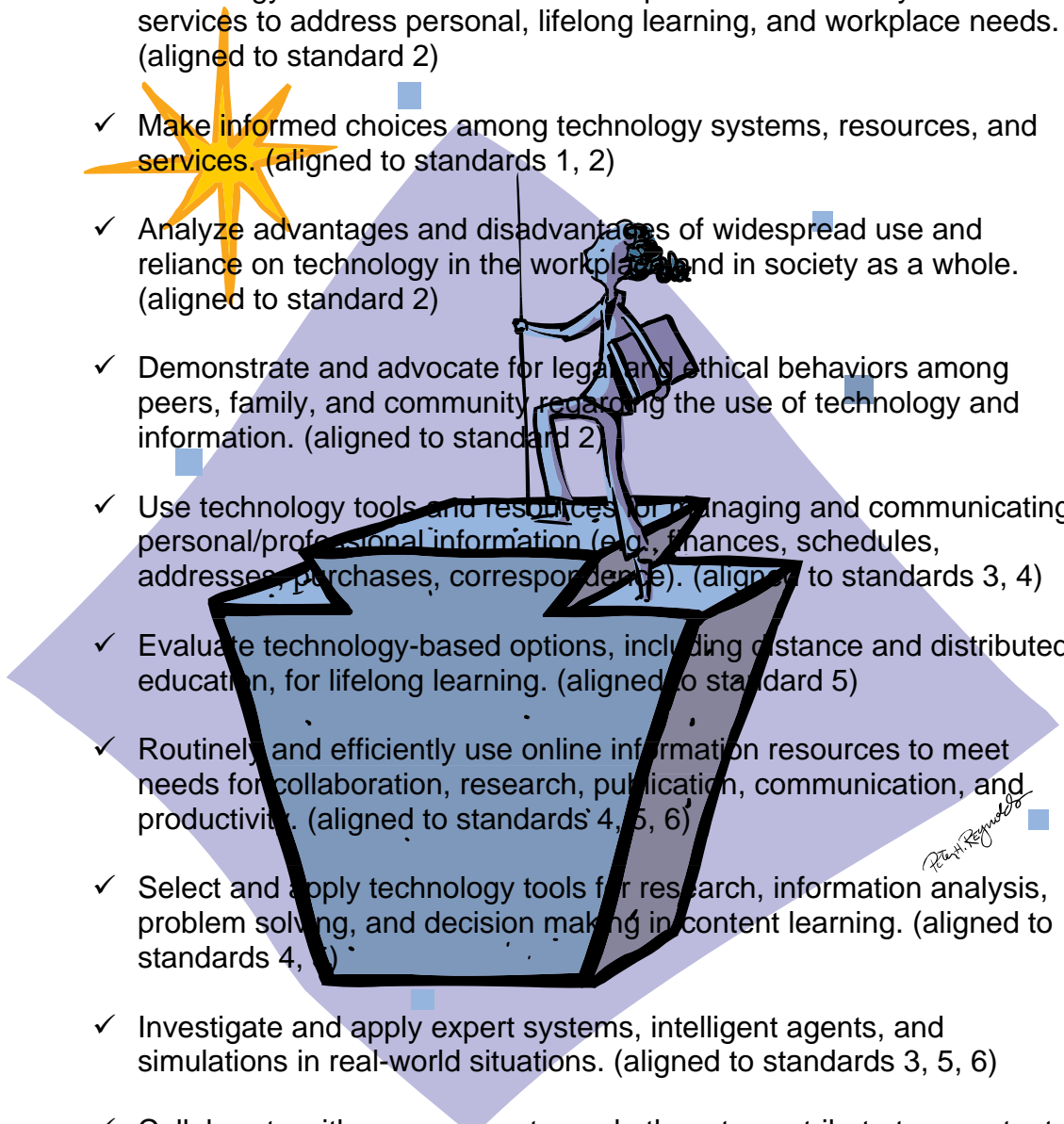
- Students use technology resources for solving problems and making informed decisions.
- Students employ technology in the development of strategies for solving problems in the real world.



▪ **What are the performance indicators by which a 21<sup>st</sup> Century T&I Literate Student can be measured?**

Prior to completion of Grade 12 students will:

- ✓ Identify capabilities and limitations of contemporary and emerging technology resources and assess the potential of these systems and services to address personal, lifelong learning, and workplace needs. (aligned to standard 2)
- ✓ Make informed choices among technology systems, resources, and services. (aligned to standards 1, 2)
- ✓ Analyze advantages and disadvantages of widespread use and reliance on technology in the workplace and in society as a whole. (aligned to standard 2)
- ✓ Demonstrate and advocate for legal and ethical behaviors among peers, family, and community regarding the use of technology and information. (aligned to standard 2)
- ✓ Use technology tools and resources for managing and communicating personal/professional information (e.g., finances, schedules, addresses, purchases, correspondence). (aligned to standards 3, 4)
- ✓ Evaluate technology-based options, including distance and distributed education, for lifelong learning. (aligned to standard 5)
- ✓ Routinely and efficiently use online information resources to meet needs for collaboration, research, publication, communication, and productivity. (aligned to standards 4, 5, 6)
- ✓ Select and apply technology tools for research, information analysis, problem solving, and decision making in content learning. (aligned to standards 4, 5)
- ✓ Investigate and apply expert systems, intelligent agents, and simulations in real-world situations. (aligned to standards 3, 5, 6)
- ✓ Collaborate with peers, experts, and others to contribute to a content-related knowledge base by using technology to compile, synthesize, produce, and disseminate information, models, and other creative works. (aligned to standards 4, 5, 6)



*Paul Reynolds*