

Milano21

Empowering Excellence

Learning and Innovation Skills (LI)

Learning and innovation skills are what separate students who are prepared for increasingly complex life and work environments in today's world and those who are not. They include:

- Creativity and Innovation (LI1)
- Critical Thinking and Problem Solving (LI2)
- Communication (LI3)
- Collaboration (LI4)

Information, Media and Technology Skills (IMT)

Today, we live in a technology and media-driven environment, marked by access to an abundance of information, rapid changes in technology tools and the ability to collaborate and make individual contributions on an unprecedented scale. Effective citizens and workers must be able to exhibit a range of functional and critical thinking skills, such as:

- Information Literacy (IMT1)
- Media Literacy (IMT2)
- ICT - Information, Communications and Technology (IMT3)

Literacy Life and Career Skills (LLC)

Today's students need to develop thinking skills, content knowledge, and social and emotional competencies to navigate complex life and work environments. P21's essential Life and Career Skills include:

- Flexibility and Adaptability (LLC1)
- Initiative and Self-Direction (LLC2)
- Social and Cross-Cultural Skills (LLC3)
- Productivity and Accountability (LLC4)
- Leadership and Responsibility (LLC5)

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LEARNING AND INNOVATION SKILLS (LI)

Learning and innovation skills increasingly are being recognized as those that separate students who are prepared for a more and more complex life and work environments in the 21st century, and those who are not. A focus on creativity, critical thinking, communication and collaboration is essential to prepare students for the future.

CREATIVITY AND INNOVATION (LI1)

Think Creatively (LI1.1)

- Use a wide range of idea creation techniques (such as brainstorming)
- Create new and worthwhile ideas (both incremental and radical concepts)
- Elaborate, refine, analyze and evaluate their own ideas in order to improve and maximize creative efforts

Work Creatively with Others (LI1.2)

- Develop, implement and communicate new ideas to others effectively
- Be open and responsive to new and diverse perspectives; incorporate group input and feedback into the work
- Demonstrate originality and inventiveness in work and understand the real world limits to adopting new ideas
- View failure as an opportunity to learn; understand that creativity and innovation is a long-term, cyclical process of small successes and frequent mistakes

Implement Innovations (LI1.3)

- Act on creative ideas to make a tangible and useful contribution to the field in which the innovation will occur

CRITICAL THINKING AND PROBLEM SOLVING (LI2)

Reason Effectively (LI2.1)

- Use various types of reasoning (inductive, deductive, etc.) as appropriate to the situation

Use Systems Thinking (LI2.2)

- Analyze how parts of a whole interact with each other to produce overall outcomes in complex systems

Make Judgments and Decisions (LI2.3)

- Effectively analyze and evaluate evidence, arguments, claims and beliefs
- Analyze and evaluate major alternative points of view
- Synthesize and make connections between information and arguments
- Interpret information and draw conclusions based on the best analysis
- Reflect critically on learning experiences and processes

Solve Problems (LI2.4)

- Solve different kinds of non-familiar problems in both conventional and innovative ways
- Identify and ask significant questions that clarify various points of view and lead to better solutions

COMMUNICATION (LI3)

Communicate Clearly (LI3.1)

- Articulate thoughts and ideas effectively using oral, written and nonverbal communication skills in a variety of forms and contexts
- Listen effectively to decipher meaning, including knowledge, values, attitudes and intentions
- Use communication for a range of purposes (e.g. to inform, instruct, motivate and persuade)
- Utilize multiple media and technologies, and know how to judge their effectiveness a priori as well as assess their impact
- Communicate effectively in diverse environments (including multi-lingual)

COLLABORATION (LI4)

Collaborate with Others (LI4.1)

- Demonstrate ability to work effectively and respectfully with diverse teams
- Exercise flexibility and willingness to be helpful in making necessary compromises to accomplish a common goal
- Assume shared responsibility for collaborative work, and value the individual contributions made by each team member

INFORMATION, MEDIA & TECHNOLOGY SKILLS (IMT)

People in the 21st century live in a technology and media-driven environment, marked by various characteristics, including: 1) access to an abundance of information, 2) rapid changes in technology tools, and 3) the ability to collaborate and make individual contributions on an unprecedented scale. Effective citizens and workers of the 21st century must be able to exhibit a range of functional and critical thinking skills related to information, media and technology.

INFORMATION LITERACY (IMT1)

Access and Evaluate Information (IMT1.1)

- Access information efficiently (time) and effectively (sources)
- Evaluate information critically and competently

Use and Manage Information (IMT1.2)

- Use information accurately and creatively for the issue or problem at hand
- Manage the flow of information from a wide variety of sources
- Apply a fundamental understanding of the ethical/legal issues surrounding the access and use of information

MEDIA LITERACY (IMT2)

Analyze Media (IMT2.1)

- Understand both how and why media messages are constructed, and for what purposes
- Examine how individuals interpret messages differently, how values and points of view are included or excluded, and how media can influence beliefs and behaviors
- Apply a fundamental understanding of the ethical/legal issues surrounding the access and use of media

Create Media Products (IMT2.2)

- Understand and utilize the most appropriate media creation tools, characteristics and conventions
- Understand and effectively utilize the most appropriate expressions and interpretations in diverse, multi-cultural environments

ICT (Information, Communications and Technology) LITERACY (IMT3)

Apply Technology Effectively (IMT3.1)

- Use technology as a tool to research, organize, evaluate and communicate information
- Use digital technologies (computers, PDAs, media players, GPS, etc.), communication/networking tools and social networks appropriately to access, manage, integrate, evaluate and create information to successfully function in a knowledge economy
- Apply a fundamental understanding of the ethical/legal issues surrounding the access and use of information technologies

LITERACY, LIFE & CAREER SKILLS (LLC)

Today's life and work environments require far more than thinking skills and content knowledge. The ability to navigate the complex life and work environments in the globally competitive information age requires students to pay rigorous attention to developing adequate life and career skills.

FLEXIBILITY AND ADAPTABILITY (LLC1)

Adapt to Change (LLC1.1)

- Adapt to varied roles, jobs responsibilities, schedules and contexts
- Work effectively in a climate of ambiguity and changing priorities

Be Flexible (LLC1.2)

- Incorporate feedback effectively
- Deal positively with praise, setbacks and criticism
- Understand, negotiate and balance diverse views and beliefs to reach workable solutions, particularly in multicultural environments

INITIATIVE AND SELF-DIRECTION (LLC2)

Manage Goals and Time (LLC2.1)

- Set goals with tangible and intangible success criteria
- Balance tactical (short-term) and strategic (long-term) goals
- Utilize time and manage workload efficiently

Work Independently (LLC2.1)

- Monitor, define, prioritize and complete tasks without direct oversight

Be Self-directed Learners (LLC2.3)

- Go beyond basic mastery of skills and/or curriculum to explore and expand one's own learning and opportunities to gain expertise
- Demonstrate initiative to advance skill levels towards a professional level
- Demonstrate commitment to learning as a lifelong process
- Reflect critically on past experiences in order to inform future progress

SOCIAL AND CROSS-CULTURAL SKILLS (LC3)

Interact Effectively with Others (LLC3.1)

- Know when it is appropriate to listen and when to speak P21 Framework Definitions Page 7 of 9 Publication date: 5/15
- Conduct themselves in a respectable, professional manner

Work Effectively in Diverse Teams (LLC3.2)

- Respect cultural differences and work effectively with people from a range of social and cultural backgrounds
- Respond open-mindedly to different ideas and values

- Leverage social and cultural differences to create new ideas and increase both innovation and quality of work

PRODUCTIVITY AND ACCOUNTABILITY (LLC4)

Manage Projects (LLC4.1)

- Set and meet goals, even in the face of obstacles and competing pressures
- Prioritize, plan and manage work to achieve the intended result

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Make strategic use of digital media (e.g., textual, graphical, audio, visual, and interactive elements) in presentations to enhance understanding of findings, reasoning, and evidence and to add interest.

- Collaborate and cooperate effectively with teams
- Respect and appreciate team diversity
- Be accountable for results

LEADERSHIP AND RESPONSIBILITY (LLC5)

Guide and Lead Others (LLC5.1)

- Use interpersonal and problem-solving skills to influence and guide others toward a goal
- Leverage strengths of others to accomplish a common goal
- Inspire others to reach their very best via example and selflessness
- Demonstrate integrity and ethical behavior in using influence and power

Be Responsible to Others (LLC5.2)

- Act responsibly with the interests of the larger community in mind

