## Thinking

#### **Critical thinking skills**

 Identify problems and develop aims, goals and objectives

• Make inferences and draw conclusions

• Identify gaps in knowledge and formulate key questions

• Consider ideas from other perspectives and points of view

• Develop contrary arguments

• Break down large concepts and projects into component parts and combine parts logically

as appropriate
Formulate provocative and relevant questions and goals

• Plan to achieve goals, including identifying targets and outlining steps

• Consider consequences of events

• Identify obstacles and challenges

• Make logical, reasonable judgments and create arguments to support them

• Design improvement to existing machines, media and technologies

• Identify and define authentic problems and significant questions for investigation

• Use multiple processes and diverse perspectives to explore alternative solutions

• Identify trends and forecast possibilities

• Troubleshoot systems and applications

#### **Creative thinking skills**

- Generate impossible ideas
- Brainstorm and map

thoughts to create ideas and questions

Consider all alternatives

• Consider the seemingly impossible

• Create novel solutions to a problem

• Evaluate solutions to problems

• Make connections between random things

• Consider opposites to renew perspective

• Apply strategies of guesswork

• Generate "what if?" questions

• Transfer and apply existing knowledge to generate new ideas, products or processes

• Utilize old ideas in new ways and combine parts in new ways

• Make intuitive judgments

• Create original works and ideas and visualize alternatives

• Practise imitation of works with a focus on the creative process

 Practise flexible thinking arguing both sides of an idea or issue

• Practise metaphorical thinking, generating questions and challenging conventions

• Challenge one's own and others' assumptions

- Seeing possibilities, problems and challenges positively
- Playing with ideas and experimenting
- Recognizing when an original idea has value and pursuing it

#### **Transfer skills**

• Use your knowledge, understanding and skills across subjects to create products or solutions

• Make connections between learning gained in different subject areas

• Apply skills and knowledge in unfamiliar situations

• Inquire in different contexts to gain a diverse perspective

• Create projects and products using knowledge and skills gained across different subject areas

• Use familiar learning skills with unfamiliar content

• Transfer current knowledge to learning of new technologies

Demonstrate personal

- responsibility for lifelong learning
- Change the context of your
- project to gain different perspectives
- Make decisions



## Self-management

Affective skills

### **Organization skills**

- Keep to class schedules and project deadlines
- Set appropriate management goals and plan strengths to achieve them
- Structure information appropriately in written, oral and visual work
- Arrive to class with the appropriate equipment
- Keep an organized and logical system of information files/notebooks
- Find and select information via different media
- Use different information organizers for different purposes
- Plan strategies to guide your personal project inquiry
- Plan and manage activities to develop a solution or complete a project
- Select and use applications effectively and productively
- Make informed choices to achieve a balance in nutrient, rest, relaxation and exercise

- Demonstrate persistence and perseverance
- Practise focus and concentration to overcome distractions
- Make informed choices on behaviours and course of action
- Seek out criticism and feedback from others and make informed choices about including it in one's work
- Practise being aware of mindbody connection
- Practise positive thinking
- Practise dealing with disappointment and unmet
- expectations
- Practise dealing with change
- Practise strategies to prevent and eliminate bullying
- Practise strategies to reduce stress and anxiety



### **Reflection skills**

- Consider ethical, cultural and environmental implications of issues
- Consider personal relationships to people, ideas and concepts
- Build understanding of personal learning strengths and weaknesses
- Be aware of areas of perceived limitation
- Develop awareness of the process of effective learning
- Analyse one's own and others' thought processes to think about how one thinks and how one learns
- Pause to reflect at different stages in the learning process
- Implement and measure the effectiveness of different learning strategies
- Demonstrate a preparedness to make changes to ineffective learning strategies
- Seek out constructive criticism
- Keep a reflective journal/portfolio of personal learning experiences focused on both process and content
- Create a record of personal learning change and improvement

2

## Research

### Information literacy skills

• Access information to be informed and inform others

- Find information in different media
- Read critically and for comprehension

• Read a variety of source for information and for pleasure

• Collect research from a variety of print and digital sources

- Collect and verify data
- Make connections between a variety of sources

Utilize different media to obtain different
perspectives

• Utilize appropriate multimedia technology to create effective presentation and representation

• Reference accurately and construct a bibliography according to recognized conventions

• Understand and implement intellectual property rights and the value of academic honesty

• Identify primary and secondary sources

• Demonstrate awareness of the effects of different modes of information representation and presentation

• Collect and analyse data to identify solutions and/or make informed decisions

• Process data and report results

## Media literacy skills

• Evaluate and select information sources and digital tools based on their appropriateness to specific tasks

• Locate, organize, analyse, evaluate, synthesize and efficiently use information from a variety of sources and media

• Use and interpret a range of content-specific terminology

• Underline ways in which images and language interact to convey ideas, values and beliefs

Identify different points of view

• Demonstrate awareness of different media interpretations of events and ideas, including social media

• Critically analyse various text forms for underlying meaning

• Use a variety of technologies and media platforms to source information including social media and online networks

• Utilize different media to obtain perspectives

• Communicate ideas effectively to multiple audiences using a variety of media and formats

• Actively make connections between different media resources in presentations

• Advocate and practise safe, legal and responsible use of information technology



# **Social**

### **Collaboration skills**

- Respect and accept sociocultural difference
- Consider, respect and analyse different opinions, points of view, ideas and preferences
- Be empathetic
- Respect different opinions and the points of view of others
- Delegate and take responsibility as appropriate
- Help others: facilitate the success of others
- Take responsibility for own actions
- Resolve conflicts and work collaboratively with appropriate roles in a team
- Understand when and how to build consensus
- Make decisions based on fairness and equality
- Negotiate goals and limitations with peers and teachers
- Help others when appropriate and encourage contribution from others
- Drive change through an understanding of others and especially of group dynamics

# Communication

## **Communication skills**

• Use active listening techniques to understand others

- Give and receive appropriate feedback
- Interpret meaning through cultural
- understandingUse a variety of speaking ter
- Use a variety of speaking techniques to make meaning clear for different audiences and purposes
- Use appropriate forms of writing for different purposes and audiences
- Use a variety of media to present to an audience
- Interpret non-verbal communication techniques and use them purposefully
- Negotiate ideas and knowledge with peers and teachers
- Interact, collaborate and publish media with peers, experts or others employing a variety of digital environments and media
- Develop cultural understanding and global awareness by engaging with learner of other cultures
- Write for different purposes
- Make effective notes, in class and for studying
- Summarize and transform information
- Use structural writing planners for different academic tasks
- Organize information logically
- Structure information correctly in summaries, essays, reports and presentations

