





Research skills

Objective A: Investigating

Challenge level	Possible demonstrations of ATL skills
Lower 	<ul style="list-style-type: none">• Collect and record data/sources• Access information to be informed and to inform others through the project
	<ul style="list-style-type: none">• Collect, record and verify data/sources• Find information specific to and surrounding the project, using a variety of media• Process data and report results• Take effective notes during project development
	<ul style="list-style-type: none">• Collect, record, verify, and use a range of sources/data• Identify primary and secondary sources• Compare, contrast and draw connections among resources• Seek a range of perspectives from multiple and varied sources to inform the project• Make connections between various sources of information, prior knowledge and subject-specific knowledge• Construct a bibliography according to recognized conventions appropriate for the task
	<ul style="list-style-type: none">• Collect and analyse data to identify solutions and make informed decisions to further the project• Create references and citations, use footnotes/endnotes and construct a bibliography according to recognized conventions
Higher 	<ul style="list-style-type: none">• Locate, organize, analyse, evaluate, synthesize and ethically use information from a variety of sources and media (including digital social media and online networks)• Use critical-literacy skills to analyse and interpret information• Understand the impact of media representations and modes of presentation when analysing information• Demonstrate awareness of media interpretations of events and ideas (including digital social media)
	<ul style="list-style-type: none">• Understand and implement intellectual property rights



Self-management skills

Objective B: Planning

Challenge level	Possible demonstrations of ATL skills
Lower   Higher	<ul style="list-style-type: none"> • Set goals • Keep a basic log or timeline planning for the project • Manage time and effort for short periods of time <hr/> <ul style="list-style-type: none"> • Set goals that are challenging and realistic • Plan short- and long-term milestones; meet deadlines • Keep an organized and logical system of information • Practise strategies to overcome distractions • Practise dealing with disappointment and unmet expectations <hr/> <ul style="list-style-type: none"> • Organize time and energy for a sustained period of time • Keep and use a weekly planner for milestones • Practise strategies to develop mental focus • Practise analysing and attributing causes of failure • Practise managing self-talk and positive thinking • Practise dealing with change throughout the project <hr/> <ul style="list-style-type: none"> • Make plans that are logically sequential and efficient • Demonstrate persistence and perseverance • Use appropriate strategies for organizing complex information • Select and use technology effectively and productively • Practise “bouncing back” after adversity, mistakes and failures



Thinking skills

Objective C: Taking action

Challenge level	Possible demonstrations of ATL skills
Lower 	<ul style="list-style-type: none"> • Identify problems • Present one perspective • Draw simple conclusions • Consider ideas and possible solutions <hr/> <ul style="list-style-type: none"> • Practise observing carefully in order to recognize problems • Gather information strictly relevant to the project • Draw reasonable conclusions and generalizations • Evaluate and manage risk • Consider ideas from multiple perspectives • Identify obstacles and challenges
 Higher	<ul style="list-style-type: none"> • Use brainstorming and visual diagrams to generate new ideas and inquiries <hr/> <ul style="list-style-type: none"> • Interpret data useful to the project • Test generalizations, hypotheses and conclusions • Revise understanding based on new information and evidence • Make guesses, ask “what if” questions • Apply existing knowledge to generate new ideas, products or processes • Consider multiple alternatives, including those that might be unlikely or impossible • Make connections between subject groups, prior learning and experiential learning • Combine knowledge, understanding and skills to create products or solutions <hr/> <ul style="list-style-type: none"> • Evaluate evidence, arguments and propositions • Recognize unstated assumptions and bias • Develop contrary or opposing arguments • Analyse complex concepts and contexts into their constituent parts and synthesize them to create new understanding • Use models and simulations to explore complex systems and issues • Troubleshoot systems and applications • Create original works and ideas; use existing works and ideas in new ways • Practise flexible thinking—develop multiple opposing, contradictory and complementary arguments • Create novel solutions to authentic problems • Make unexpected or unusual connections between objects and/or ideas • Apply skills and knowledge in unfamiliar situations • Change the context of an inquiry to gain different perspectives

Communication and social skills

Objective C: Taking action

Challenge level	Possible demonstrations of ATL skills
<p>Lower</p> 	<ul style="list-style-type: none"> • Organize information • Structure report following advice • Establish communication with supervisor <hr/> <ul style="list-style-type: none"> • Organize and depict information logically • Maintain communication with people relevant to the project • Work with others within clear expectations • Read critically and for comprehension • (Give and) receive feedback <hr/> <ul style="list-style-type: none"> • Participate in, and contribute to, digital social media networks • Read a variety of sources for information
 <p>Higher</p>	<ul style="list-style-type: none"> • Communicate information and ideas effectively to audiences using a variety of media and formats • (Give and) act meaningfully on feedback received <p>If applicable for the product/outcome:</p> <ul style="list-style-type: none"> • delegate and share responsibility for decision-making • help others to succeed • share ideas, collaborate and build relationships with peers and experts using a variety of digital environments and media. <hr/> <ul style="list-style-type: none"> • Use intercultural understanding to interpret communication • Use appropriate forms of writing and speaking for different purposes and audiences • Use a variety of media to communicate with a range of audiences • Use and interpret a range of terms and symbols • Paraphrase accurately and concisely • Preview and skim texts to build understanding • Work effectively with experts and/or the supervisor • Listen actively to other perspectives and ideas <p>If applicable for the product/outcome:</p> <ul style="list-style-type: none"> • encourage others to contribute • negotiate effectively • build consensus • exercise leadership and take on a variety of roles within groups • make fair and equitable decisions • manage and resolve conflict, and work collaboratively • interpret and use effectively modes of non-verbal communication.