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Research Project

Student Worksheets - the Capabilities

The following tables for the capabilities may assist students to consider and choose one or more capabilities relevant to their research.

Page 2 – Example of how a student could use a Worksheet (based on the Personal and Social Capability)

Page 3 – Literacy Capability

Page 4 – Numeracy Capability

Page 5 – Information and Communication Technology Capability

Page 6 – Critical and Creative Thinking Capability

Page 7- Personal and social Capability

Page 8 – Ethical Understanding Capability

Page 9 – Intercultural Capability

**EXAMPLE**

Student Worksheet – The Personal and Social Capability

In Research Project, you develop your capability for personal and social understanding by, for example:

* developing a sense of personal identity
* reviewing and planning personal goals
* understanding and exercising individual and shared obligations and rights
* participating actively and responsibly in learning, work, and community life
* establishing and managing relationships in personal and community life, work, and learning
* developing empathy for and understanding of others
* making responsible decisions based on evidence
* working effectively in teams and handling challenging situations constructively
* building links with others, locally, nationally, and/or globally.

Proposed Research Question: How can I produce a design and work plan suitable for a mural outside the local swimming pool?

| **Relevant examples of aspects of the Personal and Social capability selected from or added to the list above** (from the Subject Outline) | **How might this capability be relevant to my research question?** |
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| * Participating actively and responsibly in learning, work and community life | * *I plan to be actively involved in community life and decision making by approaching the Council with a design and work plan. Usually a work plan is in response to a design brief but I am taking the initiative by suggesting the idea of a mural and producing both a design and work plan.* * *I also have strong opinions about the role of art in public spaces and would like to share these ideas with the Council.* |
| * Developing empathy for and understanding of others | * *I would imagine that respect of diversity of difference and openness to different perspectives and experiences will be something I’ll have to pay attention to as part of my project.* |
| * Making responsible decisions based on evidence | * *I want to know what themes and ideas are considered important in the design of murals and how the decisions about this are made. The tradition for many murals is that they reflect local ‘identity’. Who decides what local identity actually is? How much input does the artist have in interpreting the suggested themes?* |

Student Worksheet – The Literacy Capability

In Research Project you develop your capability for literacy by, **for example**:

* communicating with a range of people in a variety of contexts
* asking questions, expressing opinions, and taking different perspectives into account
* using language with increasing awareness, clarity, accuracy, and suitability for a range of audiences, contexts and purposes
* accessing, analysing, and selecting appropriate primary and secondary sources
* engaging with, and reflecting on, the ways in which texts are created for specific purposes and audiences
* composing a range of texts – written, oral, visual, and multimodal
* reading, viewing, writing, listening, and speaking, using a range of technologies
* understanding that different text types, such as a website, speech, newspaper article, film, painting, data sets, reports, set of instructions, interview, have their own distinctive stylistic features
* understanding the relationships between literacy, language, and culture.

Proposed Research Topic:

| **Relevant examples of aspects of the Literacy capability selected from or added to the list above** (from the Subject Outline) | **How might this capability be relevant to my research question?** |
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Student Worksheet – The Numeracy Capability

In Research Project you develop your capability for numeracy by, **for example**:

* communicating ideas to a range of audiences, using appropriate language and representations, such as symbols, tables, and graphs
* analysing information displayed in a variety of representations and translating information from one representation to another
* justifying the validity of the findings, using everyday language, when appropriate
* applying skills in estimating and calculating to solve and model everyday problems using thinking, written and digital strategies
* interpreting information given in numerical form in diagrams, maps, graphs, and tables
* visualising, identifying, and sorting shapes and objects in the environment
* understanding patterns and relationships when solving problems
* understanding spatial and geographical features and relationships
* interpreting and incorporating statistical information that requires an understanding of the diverse ways in which data are gathered, recorded, and presented.

Proposed Research Topic:

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| **Relevant examples of aspects of the Numeracy capability selected from or added to the list above** (from the Subject Outline) | **How might this capability be relevant to my research question?** |
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Student Worksheet – The Information and Communication Technology Capability

In Research Project you develop your capability for information and communication technology by, **for example**:

* understanding how contemporary information and communication technologies affect communication
* critically analysing the limitations and impacts of present technologies
* considering the implications of potential technologies
* communicating and sharing ideas and information to collaboratively construct knowledge and digital solutions
* defining and planning information searches of a range of primary and secondary sources when investigating research questions
* developing an understanding of hardware and software components, and operations of appropriate systems, including their functions, processes, and devices
* applying information and communication technology knowledge and skills to a range of methods to collect and process data, and transmit and produce information
* learning to manage and manipulate electronic sources of data, databases, and software applications
* applying technologies to design and manage projects.

Proposed Research Topic:

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| **Relevant examples of aspects of the Information and Communication technology selected from or added to the list above** (from the Subject Outline) | **How might this capability be relevant to my research question?** |
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Student Worksheet – Critical and Creative Thinking Capability

In Research Project you develop your capability for critical and creative thinking by, **for example**:

* thinking critically, logically, ethically, and reflectively
* learning and applying new knowledge and skills
* accessing, organising, using, and evaluating information
* posing questions and identifying and clarifying information and ideas
* developing knowledge and understanding of a range of research processes
* understanding the nature of innovation
* recognising how knowledge changes over time and is influenced by people
* exploring and experiencing creative processes and practices
* designing features that are fit for function (e.g. physical, virtual, textual)
* understanding the place of creativity in learning, the workplace, and community life
* understanding entrepreneurial enterprise
* reflecting on, adjusting and explaining their thinking and identifying the reasons for choices, strategies, and actions taken.

Proposed Research Topic:

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| **Relevant examples of aspects of the Critical and Creative thinking Capability selected from or added to the list above** (from the Subject Outline) | **How might this capability be relevant to my research question?** |
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Student Worksheet – The Personal and Social Capability

In Research Project, you develop your capability for personal and social understanding by, **for example:**

* developing a sense of personal identity
* reviewing and planning personal goals
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* participating actively and responsibly in learning, work, and community life
* establishing and managing relationships in personal and community life, work, and learning
* developing empathy for and understanding of others
* making responsible decisions based on evidence
* working effectively in teams and handling challenging situations constructively
* building links with others, locally, nationally, and/or globally.

Proposed Research Topic:

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| **Relevant examples of aspects of the Personal and Social capability selected from or added to the list above** (from the Subject Outline) | **How might this capability be relevant to my research question?** |
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Student Worksheet – The Ethical Understanding Capability

In Research Project you develop your capability for ethical understanding by**, for example**:

* understanding and discussing ethical concepts and issues
* considering ethical and safe research processes, including respecting the rights and work of others, acknowledging sources, and observing protocols when approaching people and organisations
* appreciating the ethical and legal dimensions of research and information
* reflecting on personal ethics and honesty in experience and decision-making
* exploring ideas, rights, obligations, and ethical principles
* considering workplace safety principles, practices, and procedures
* developing ethical sustainable practices in the workplace and the community
* inquiring into ethical issues, selecting and justifying an ethical position, and understanding the experiences, motivations and viewpoints of others
* debating ethical dilemmas and applying ethical principles in a range of situations.

Proposed Research Topic:

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| **Relevant examples of aspects of the Ethical Understanding capability selected from or added to the list above** (from the Subject Outline) | **How might this capability be relevant to my research question?** |
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Student Worksheet – Intercultural Understanding Capability

In Research Project, you develop your capability for intercultural understanding by, for example:

* identifying, observing, analysing and describing characteristics (e.g. group memberships, traditions, values, religious beliefs, ways of thinking) of their own cultural identities and those of others
* recognising that culture is dynamic and complex and that there is variability within all cultural, linguistic, and religious groups
* learning about and engaging with diverse cultures in ways that recognise commonalties and differences, create connections with others, and cultivate mutual respect
* developing skills to relate to and move between cultures
* acknowledging the social, cultural, linguistic and religious diversity of a nation, including those of Aboriginal and Torres Strait Islander societies in Australia
* recognising the challenges of living in a cultural diverse society and of negotiating, interpreting, and mediating difference.

Proposed Research Topic:

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| **Relevant examples of aspects of the Intercultural understanding capability selected from or added to the list above** (from the Subject Outline) | **How might this capability be relevant to my research question?** |
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