## Curriculum Audit

## **Autonomous Car Challenge**



## **Victorian Curriculum F-10**

| CD Code     | Area                              | Discipline                        | Level              | Strand                             | Content Description  |
|-------------|-----------------------------------|-----------------------------------|--------------------|------------------------------------|--|
| VC2TDI8C01  | Technologies                      | Technologies                      | Levels 7 and 8     | Creating Digital Solutions         | define and decompose real-world problems by taking into account functional requirements and constraints  |
| VC2TDI8C02  | Technologies                      | Technologies                      | Levels 7 and 8     | Creating Digital Solutions         | design algorithms involving nested control structures and represent them using flowcharts and pseudocode, and use tracing techniques to test and identify errors   |
| VC2TDI10C02 | Technologies                      | Technologies                      | Levels 9<br>and 10 | Creating Digital<br>Solutions      | design algorithms involving logical operators and represent them as flowcharts and pseudocode, and validate algorithms and programs by comparing their output against a range of test cases                                |
| VC2TDI8C04  | Technologies                      | Technologies                      | Levels 7 and 8     | Creating Digital Solutions         | implement, modify and debug programs involving control structures and functions in a general-purpose programming language  |
| VC2TDI10C04 | Technologies                      | Technologies                      | Levels 9<br>and 10 | Creating Digital Solutions         | implement, modify and debug modular programs, applying selected algorithms and data structures, including in an object-oriented programming language   |
| VC2S10H02   | Science                           | Science                           | Levels 9<br>and 10 | Science as a<br>Human<br>Endeavour | advances in technologies have enabled advances in science, while science has contributed to developments in technologies and engineering   |
| VC2CP10S02  | Personal and<br>Social Capability | Personal and<br>Social Capability | Levels 9<br>and 10 | Self-awareness<br>and Management   | when and how to identify and use help-seeking and other productive coping strategies suited to different contexts; strategies for providing peer support, peer referral and empathetic communication in different contexts |
| VC2CP10O05  | Personal and<br>Social Capability | Personal and<br>Social Capability | Levels 9<br>and 10 | Social Awareness and Management    | when and how to adapt skills and strategies to prevent, defuse or resolve conflict within and between groups in different contexts   |

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