# Assessment rubric: Year 5 – Selection in physical computing

| **Learner:** |  | **Teacher:** |  | **Date:** |  |
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|  | **Emerging [1]** | **Expected [2]** | **Exceeding [3]** | **Score** |
| --- | --- | --- | --- | --- |
| **Task** | * Describe the model that will be made in the task
 | * Describe the requirements of the task, including the use of selection
 | * Explain how selection could be used to meet the requirements of the task
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| **Design** | * Identify components to be used in their electrical circuit
* Build a model that reflects the task
* Write an algorithm to control output devices
 | * Construct a wiring diagram to show how components will be connected
* Build a model that supports the hardware that will be used in the task
* Write an algorithm that uses selection to control a sequence using output devices
 | * Construct a wiring diagram detailing the pads to be used on each component
* Build a model informed by the limitations of the hardware (for example, not placing LEDs on the rotating disc)
* Explain how conditions and loops have been used in the algorithm to create a selection statement
 |  |
| **Code** | * Choose from a scaffolded set of blocks
* Identify where the program goes wrong
 | * Combine appropriate blocks to implement their algorithm
* Suggest a strategy to fix the code when it is not working
 | * Explain why they have chosen to implement their algorithm in that way
* Explain to others any bugs found and how they were fixed
 |  |
| **Running the code** | * Run their code with their model connected
 | * Test their code with their model
 | * Discuss the limitations of reviewing the code while running it
 |  |
| **Evaluation** | * Identify elements of the task that have been achieved
 | * Evaluate how successful they were in meeting the task requirements
 | * Identify how and why their project could be enhanced
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|  |  |  |  |  |

| Teacher feedback |  |
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| **Learner response to feedback** |  |

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