**iRobot**

**Criterion D: Create**

Students are expected to document, with a series of photographs or a video and a dated record, the process of making their product/solution, including when and how they use tools, materials and techniques. Students are expected to follow their plan, to evaluate the plan and to justify any changes they make to the plan while they are creating the product/solution.

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| **Achievement level** | **Level descriptor** | **Task specific clarifications** |
| **0** | The student did not reach a standard described by any of the descriptors given below. | There is no evidence of practical work being carried out. |
| **1–2** | The student considered the plan and created at least **part** of a product/solution. | You have recorded **few or no steps** involved in making your speakers.  You did not complete a Sumobot. |
| **3–4** | The student used appropriate techniques and equipment.  The student followed the plan and **mentioned any modifications** made, resulting in a product/solution of **good quality**. | You have recorded **most** of the steps involved in making your robot using text, images and/or video.  There is clear **evidence** that you have attempted to realize your design and you have **explained** any changes.  You have completed making a working Sumobot |
| **5–6** | The student **competently** used appropriate techniques and equipment.  The student followed the plan and **justified any modifications** made, resulting in a product/solution of **appropriate quality** using the resources available. | You have recorded **all** of the steps involved in making your speakers using text, images and video.  There is clear, well documented, **evidence** that you have completely realized your design and you have **justified** any changes.  You have completed making working speaker(s) to the best of your ability**.** |

**Notes**

* Appropriate quality: This is the best product/solution that the student can produce, taking into account the resources available, the skills and techniques they have used, their educational development, how the product/solution addresses the identified need, and aspects of safety and ergonomics.