

| Balloon Car Lab   |   |  |  |  |  |  |  |  |
|-------------------|---|--|--|--|--|--|--|--|
| Achievement Level | Criterion B: Developing Ideas   | Criterion Made Simple  | Criterion D: Evaluating  | Criterion Made Simple  |  |  |  |  |
|                   | iii. Present the chosen design and outline the reasons for its selection.   | Hypothesis: Picture of the car and explain why you chose this design.                        | ii. Explain the success of the solution against the design specification.<br>iii. Describe how the solution could be improved.   | ii. How did your car do and in comparison to the other groups? What caused it to succeed or fail?<br>iii. What would you do to improve your car and how will that help?  |  |  |  |  |
| 0                 | The student does not reach a standard described by any of the descriptors below.  |  | The student does not reach a standard described by any of the descriptors below.   |  |  |  |  |  |
| 1-2<br>50-60      | iii. Creates incomplete planning drawings/diagrams.   | iii. Creates incomplete diagram  | ii. States the success of the solution.<br>iii. States what went wrong.  | ii. Provides incomplete conclusion<br>iii. Provides incomplete conclusion  |  |  |  |  |
| 3-4<br>65-75      | iii. Outlines the main reasons for choosing the design with reference to the design specification.                          | iii. Creates complete diagram lacking either labels, measurements, or notes                  | ii. Outlines the success of the solution against the design specification based on relevant product testing.<br>iii. Lists the ways in which the solution could be improved. | ii. Provides complete conclusion with vague explanation of other cars' success and design<br>iii. Provides complete conclusion with vague explanation of improvements to car   |  |  |  |  |
| 5-6<br>80-90      | iii. Presents the chosen design and outlines the main reasons for its selection with reference to the design specification. | iii. Creates complete diagram with labels, measurements, and notes                           | ii. Describes the success of the solution against the design specification based on relevant product testing.<br>iii. Outlines how the solution could be improved.           | ii. Provides complete conclusion with detailed explanation of other cars' success and design<br>iii. Provides complete conclusion with detailed explanation of potential improvements to car   |  |  |  |  |
| 7-8<br>95-100     | iii. Presents the chosen design and outlines the reasons for its selection with reference to the design specification.      | iii. Creates detailed drawing with labels, measurements, and notes, including multiple views | ii. Explain the success of the solution against the design specification based on authentic product testing.<br>iii. Describes how the solution could be improved.           | ii. Provides thorough conclusion with detailed explanation of other cars' success and design, including physics vocabulary and concepts<br>iii. Provides thorough conclusion with extra depth when discussing potential improvements to car, including physics vocabulary and concepts |  |  |  |  |
| Overall Score     | Criterion B:  |  | Criterion D:   |  |  |  |  |  |