## Industrial design challenge – separating materials lesson

### Rubric

**Assessment**

| Criteria | Beginning | Achieved  | Exceeded |
| --- | --- | --- | --- |
| Design journal | Provides annotated designs showing materials to be used. | Provides annotated designs that show how components will function. | Shows how design iterations have taken testing findings into account. |
| Design testing methodology | Tests the overall design and explores potential changes. | Designs a method to test a single variable. | Designs reproducible methods to test at least two variables. |
| Model construction | With guidance, works collaboratively with other students and uses some tools and techniques. | Works collaboratively with other students and  safely uses tools and techniques. | Works collaboratively with other students to support own and others’ safe use of tools and techniques. |
| Model design | The model sorts some materials. | The model sorts all materials into separate trays. | The model effectively sorts all materials into separate trays with minimal contamination. |
| Communication | Uses representations to capture their thinking. | Uses appropriate technical terms and representations to capture their thinking. | Uses appropriate technical terms and representations to capture their design process for a teacher and peer audience. |