# Green packaging

## Assessment

### Packaging engineering challenge

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| Criteria | Beginning | Achieved | Exceeded |
| Needs analysis | Describes needs relating to materials and form. | Describes needs of a range of stakeholders and relates these to materials and form. | Describes key stakeholder needs and relates to these to material and form within a circular economy model. |
| Materials investigation design | Plans an investigation to test at least three materials against a single condition. | Plans an investigation to test at least three materials against several conditions, including a risk assessment. | Plans an investigation to test at least three materials against several conditions, including measures to ensure reliability of data and a risk assessment. |
| Materials investigation conduct | Selects and uses equipment safely. | Selects and uses appropriate equipment safely. | Selects and uses appropriate equipment safely, systematically and accurately. |
| Materials investigation analysis and findings | Identifies trends in data and draws conclusions. | Uses knowledge of scientific concepts to draw conclusions about observed trends that are consistent with evidence. | Uses knowledge of scientific concepts to draw conclusions about observed trends that are consistent with evidence and identifies possible areas for error in the method used. |
| Prototype design | The prototype shows how a ‘greener’ material could be used to a package a product. | The prototype shows how a ‘greener’ material could be used to package, transport and market a product. | The prototype shows how a ‘greener’ material can be used to improve packaging, transport and marketing of a product. |
| Prototype Pitch | The pitch explains how environmental considerations have informed the packaging design. | The pitch explains how social, economic and environmental considerations have informed the packaging design. | The pitch explains how emerging technologies can influence social, economic and environmental considerations to inform packaging design. |