**Engineers think outside the square**

**Rubric**

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| **Criteria** | **Beginning** | **Achieved** | **Exceeded** |
| Uses SCAMPER to generate new ideas  | Applies some aspects of the SCAMPER routine to iterate the object.  | Applies every aspect of the SCAMPER routine to iterate the object.  | Applies every aspect of the SCAMPER routine to develop significantly different iterations of the object.  |
| Problem-solving and innovation  | Identifies some known variations on the object.  | Creates some novel variations on the object that solve specific problems.  | Considers problems and opportunities and designs novel variations of the object to address these.  |
| Communication  | Sketches and annotations provide some insight into design thinking.  | Sketches and annotations provide clear insight into design thinking.  | Sketches and annotations provide clear insight into design thinking and decisions by highlighting materials, processes or purpose.  |
| Final design | The final design demonstrates some creative thinking.  | The final design is creative and original.  | The final design is unique and represents a valuable, innovative iteration of the object.  |