

## Design a Crusher

**Topic:** Mining

### **Background Information:**

The Huntly mine site is 26km from the Pinjarra Refinery. When bauxite has been extracted it is transported to a crusher. This large piece of equipment crushes rocks, enabling them to be transported on the conveyor to the refinery.

### **You Will Need:**

- A3 paper
- Pencil
- Ruler

### **What You Need to Do**

Design a piece of equipment to crush Smarties or M&Ms.

### **Extension/ Alternatives**

- Modify the design to utilise materials that are readily available.
- Construct the crusher and test how well it works.
- Design and build a conveyor to transport the material that has been crushed.

### **Final Question:**

How well did the crusher work?

What modifications could improve performance?

### **Curriculum Links:**

**Society and Environment:** Resources

**Science:** Energy and Change

**Technology and Enterprise:** Technology Process, Materials, Technology Skills