

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

