Teaching Notes

Produce solutions

Teachers must organise time in the workshop, drawing room and computer lab for students to complete their communication devices.

Tasks

1. Develop the proposal

- The local council should be consulted as to their requirements for a development proposal.
- Students could revise the brainstorming techniques learned in the previous “Generate and develop ideas” section of this resource. The action plan will then be developed from this brainstorming activity.
- Gantt charts can be produced in any software that uses tables, eg Microsoft Word and Microsoft Excel. The bars are made using filled rectangles which are able to be moved and resized.

2. Produce communication devices

- Reinforce the necessity for a variety of communication devices.
- Student group members could work on different communication devices.
- Multimedia elements could be combined into one powerpoint presentation.
- Encourage the use of recycled materials in the construction of models.
- A mixture of CAD and traditional drawing methods could be used.
- Google SketchUp is an ideal tool for producing 3D graphics. There are many YouTube video SketchUp tutorials such as http://youtu.be/gsfH_cyXa1o. Teachers will need to direct students to use metric instead of imperial units of measurement.

3. Present your ideas

- Give student groups plenty of time to rehearse their presentations.
- Each member of the group must be involved in the presentation.
- Invite personnel from the local council to add realism to the audience. Encourage feedback from the audience at the conclusion of the presentation.
- Show students this video on how not to make a presentation http://youtu.be/wXLI9Q1Jlw. Ask them to spot the problems
- Show students this rules for presentations video http://youtu.be/hT9GGmundag.
- Individual students must complete the reflections document and include it in their folios.