

Teacher's Note

Answers:

Diode	A vacuum tube or semiconductor component that allows electric current to flow in only one direction.
Down	A computer that is switched off or a computer that is not operating. This could be caused by a 'bug' or a 'crash'. It could also be that the user has switched off the computer.
Motherboard	A large printed circuit board supporting wiring patterns and edge-connectors. Smaller printed circuit boards, processing units, memories and interfaces may be plugged into this board.
Channel	A connection between the computer and a terminal or other external device.

- UPC stands for Universal Product Code. (Students may answer bar-code)
- Check student's drawing of a UPC (bar-code)
- Allow time for students to collect the UPC's from products they may have at home.

Suggested Activities:

- ❖ Obtain a diode from a technician to show students what it looks like.
- ❖ Ask students to draw a picture of a diode.
- ❖ Obtain an old motherboard from a technician to show students what it looks like.
- ❖ Bring various products to class that display the UPC. Observe and discuss that each UPC is different.
- ❖ Ask students if they know how the scanner can read the bar code? Do they realize someone must enter the details into the cash register's computer system?
- ❖ Ask students to design a product made from recycled material and draw their own bar code on the product.
- ❖ For information about bar codes visit: <http://www.adams1.com/pub/russadam/upccode.html>
- ❖ Or visit: <http://barcodebarcode.com/>

Learning Area: T&E. **Strands:** TP, M, I. S. **Substrands:** TP1,2,3,4. M1,2. I1,2. S1,2.
Overarching: 1,2,3,4,5,6,7,10,11,12,13. **Linking Subjects:** Eng. Sci. & Arts.