

Computer Engineering: an activities-based approach

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Computer Studies



Software:

Computer and Information
Science

Grade 10, 11, 12

Hardware:

Computer Engineering

Grade 10, 11, 12

Computer Engineering Units

Five Units



1. Hardware
2. Networking
3. Integrated Circuits
4. Programming
5. Interfaces

Integrated Circuits



- **AND**
- **NAND**
- **OR**
- **NOR**
- **EOR**
- **NOT**
- *Decoder*
- *Seven segment*
- *Adder*
- *Timer*
- *Latch*
- *De-multiplexer*

Integrated Circuit

Pin 14
(+5V)

I.D.#

Dent
(always left)

Pin 1

Pin 7
(COM)



The Breadboard

Connected
(horizontally)

Connected
(vertically)

Divider

Connected
(horizontally)



