

## Computer Club – Lesson 1

### What is a Computer?

Approximate Time: 35 minutes

#### Supplies Needed:

Movie – Iron Man

Artifacts – Inputs/outputs, computer boxes with motherboard, cpu, memory, hard drive, ribbon cable, cards to insert in expansion slots

#### Objectives

Understand and identify basic personal computer hardware.

Identify the basic process of computing (Input, processing, output).

#### Anticipatory Set (Grab attention):

Video clip from Ironman showing Tony Stark talking to computer.

How is he communicating with the computer?

How does he tell it what to do?

How does he get the results of what it does?

How do you tell the computer what to do?

How do you see the results of what it does?

#### Essential Question:

How does a computer work?

#### Big Idea (answer):

A computer is a system. A system has INPUTS that are PROCESSED to produce OUTPUTS

#### Lesson:

- 1) Compare the computer to other systems (ex: cardiovascular system)
- 2) Computer is a system having Inputs, Processing and Output - Show examples of inputs/outputs (artifacts or power point)
- 3) In Groups – put computer together while explaining parts
  - a. Add Memory
  - b. Set Fan/heat sink on top
  - c. Connect hard drive to motherboard using ribbon cable (and optical drives or floppy)
  - d. Add a Nic or graphics card

#### Closing Activity (did they get it):

On a piece of paper – write down or draw a diagram of what a computer is in your own words.