

Computer Parts

Basic Prior knowledge:

1. What can a computer do?
2. How does a computer work?
3. What is data?
4. What is a file?
5. What is a Personal Computer (PC)?

Advanced Prior knowledge:

6. What is a port?
7. What does it mean to process data?
8. What is memory?

Ans for 6: A port refers to a connector, where you can plug in cables to connect new devices.

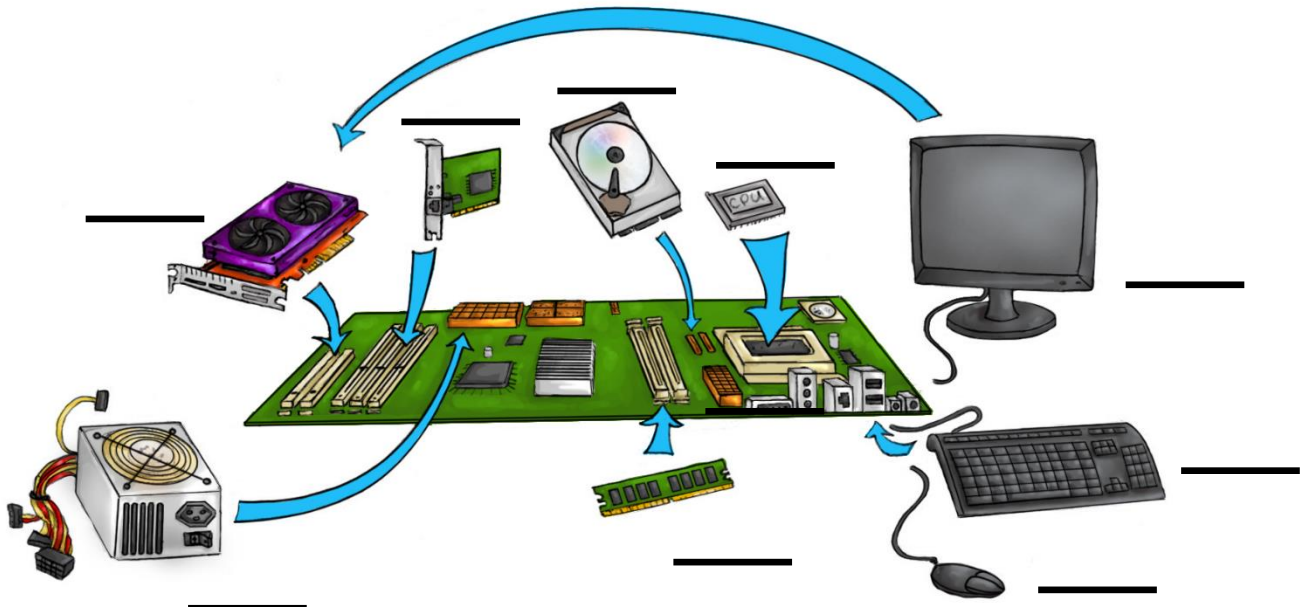
Activity I: Card Games

1. The facilitator displays the picture of a computer part and asks:
What is it called?
2. The facilitator shows the correct name of each part and asks:
What does it do?
3. The facilitator displays the description of what each part does.
4. Repeat 1 to 3 for each part.

Play the Game

1. Randomly shuffle the names, the pictures, and definitions.
2. Pick a picture, name, or a definition.
 - a. If it is a picture, ask for the name and what it does.
 - b. If it is a definition, give it's name.

Activity II: Identify Computer Parts



Work with your facilitator to identify all parts of the computer system.

Activity III: Data flows from part to part

Please fill in the steps on how picture data moves through the computer for display:

Read picture file from _____
Transfer picture data to _____
Write pixels to video memory for display.

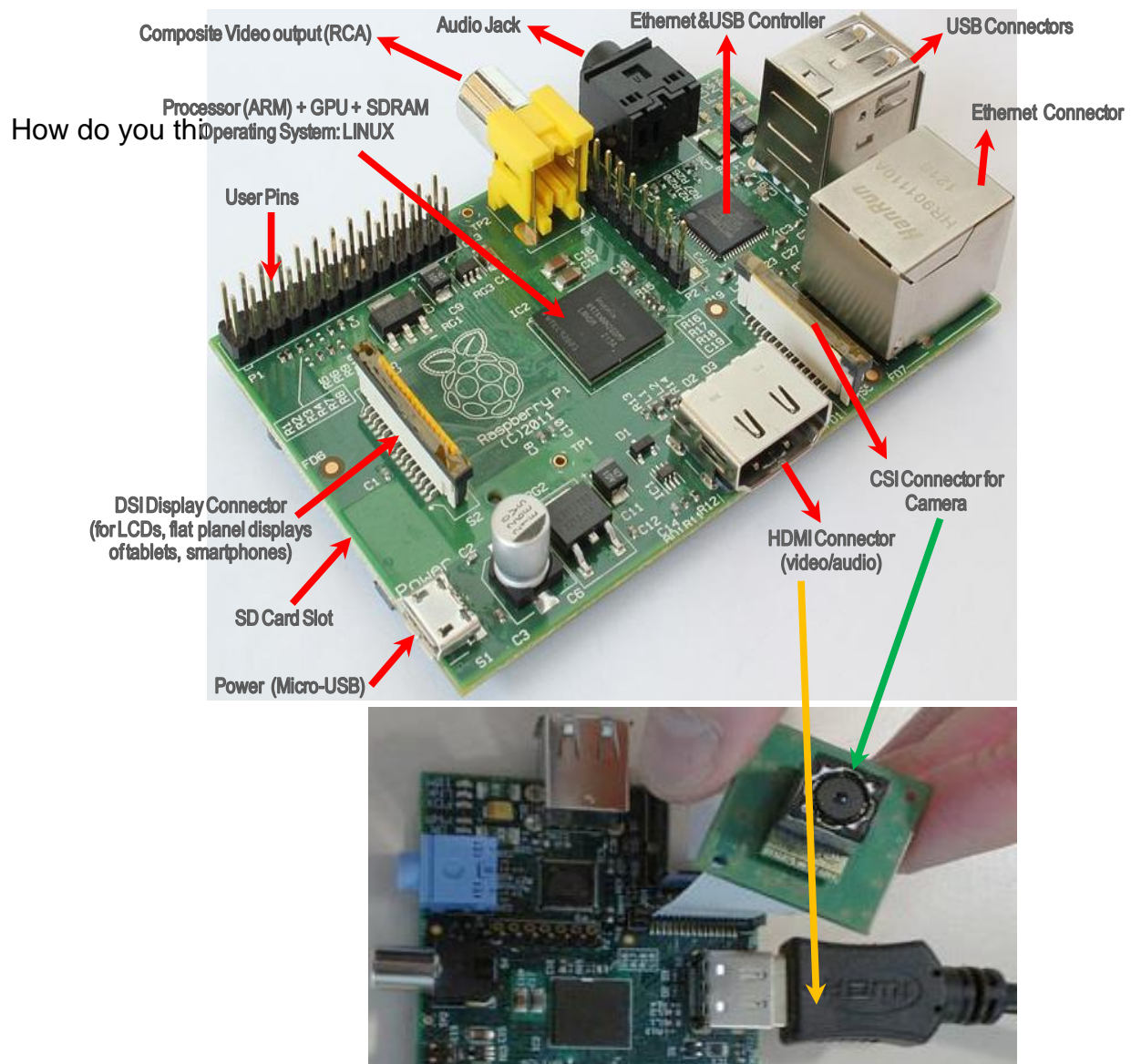
Complete the steps for how to display a character that is input from the keyboard:

Read the input from the keyboard

Activity IV: Put together the Raspberry Pi computer

Work with your facilitator to put together the Raspberry Pi computer. Connect the power at the end.

Here is a picture of an old Raspberry Pi:



Based on this diagram, can you identify all of the components of your new Raspberry Pi? What has changed since then?