

Lesson 2.2: Inside my computer

Objectives

In this lesson, students will:

- ❖ Be able to identify major components inside the computer
- ❖ Explain the functions of the common components of the motherboard

Agenda

- | | |
|-----------------|---------|
| 1. Introduction | 5 mins |
| 2. Who's who? | 20 mins |
| 3. Wrap up | 10 mins |

Preparation

- "Who's who?" (1 copy per student)
- Pens

Resources & Links

- https://hello-ruby-production.s3.amazonaws.com/uploads/exercise-material/attachment/58/Task_18.pdf
- <https://youtu.be/i5LDfP8Ls9s>

Credits:



1. Introduction

In a previous activity, you have created your own computer. While doing that, you started with the motherboard. The motherboard is where very important components of the computers are attached and can work together. (see Grade 1 - Unit 1 - Lesson 1.2). One important component is for example the hard disk drive (or hard drive) where the computer can store data. Today, we are going to refresh our memory (or our hard drive) regarding the most important components inside of a computer and learn what they do.

2. Who's who?



Watch the video: <https://youtu.be/i5LDfP8Ls9s>



Can you remember the name of different components inside the computers? What can they do?



Each student receives a copy of the activity: "Who's who?"

Instructions to give to students:

- Read the name and explanation of each component in the bubbles
- Try to find which drawing better describes that component
- Write their name underneath

3. Wrap Up and Reflections



Reflection Points:

- Look at clues to spot a computer: on/off button, screen etc...
- The world is full of computers, which one is your favorite?
- Computers used to take a lot of room, but now computers can be very small. Can you think of a small computer?

TASK 18

WHO'S WHO?

GPU

I am powerful in showing things on the computer screen, but I have a bad memory and I need the help of ROM and RAM.

CPU

I am the processor. I am very smart and fast at calculating things. I am super busy bossing around and telling the other components what to do.

HARD DRIVE


I am slow, but I keep good care of your pictures and games.

RAM

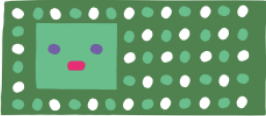
I remember all immediate things and run between the CPU and the Hard Drive but I forget everything once the computer is shut down.

ROM


I remember all the important things and stuff that you don't want to accidentally remove or have disappear when the power is turned off.




Name




Name



Name



Name



Name