

# MODULE PARENTS AND SCHOOL BOARD

## ACTIVITY 3 . ADAPTIVE TECHNOLOGY

- **TIME:** 30m.
- **RESOURCES:** Infographic – list of recommendations.
- **LANGUAGES:** ENG / SPA.

### **DESCRIPTION:**

Many times, educational institutions lack the necessary accessibility and inclusion measures to facilitate the education of young people. The uniqueness and variety of rare diseases require personalized responses to specific needs. Therefore, it is necessary for both parties to be familiar with both current legislation and the specific circumstances of the young person.

### **OBJECTIVES:**

- Identify the barriers that may affect the proper educational development of the young person.
- Provide appropriate technological devices to enhance the educational performance of the young person.

### **LESSON OVERVIEW:**

Below is a list and description of technological devices (mouse and keyboards) that promote the inclusion of individuals affected by rare diseases in the classroom. Both parties should carefully read the recommendations provided in the following document, meet, and seek solutions.

### **Mouse magnifier:**

They are devices that allow mouse access for users who, even though they have the possibility of using conventional mice, do not have precision in movement.

### **Mouse with buttons:**

It is a device that allows the emulation of mouse movements on the table but controlled with buttons. It is suitable for users with limited precision in hand movement

### **Joystick mouse:**

They are ergonomic mice that allow manipulation by users who have difficulties operating conventional mice.

### **Eye control mouse:**

There are devices that replace the conventional computer mouse. They allow cursor movement through head movements detected by an optical sensor. There are infrared models that allow movement even when there are involuntary movements.

### **Mouth mouse:**

Mouth mouse allow the movement of the mouse pointer on the screen with mouth movements. Typically, clicks are made through blowing or sucking. Some are sensitive to tongue moisture for clicking

### **Chin mouse:**

It is a joystick mouse emulator adapted for use with the chin.

### **Mouse PAD:**

Designed for individuals who have difficulty using conventional mice but are able to independently move a finger.



### **Compact Keyboard:**

Due to their smaller dimensions, they require less range of motion.



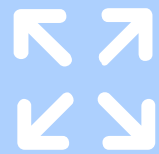
### **Extended Keyboard:**

Their dimensions are larger than those of conventional keyboards, requiring less precision in movement to operate



### **Extra Large Keyboard:**

QWERTY keyboards with dimensions similar to those of a standard keyboard but with a reduced number of larger keys than conventional ones, and the font used for key identification is enlarged.



### **Programmable Keyboards:**

Keyboards that can be programmed to adapt to the specific needs of each user. This is achieved by using flexible sheets of varying complexity for input.



### **One Hand Keyboard:**

Sometimes, full keyboard operation with just one hand is necessary due to the inability to move the other hand. These keyboards have a special key layout that allows access with reduced range of motion.



### **Special Keyboards:**

At times, the use of a keyboard with a special layout becomes necessary due to an extraordinary hand positioning, with an integrated mouse, etc. There are alternatives available in the market for such cases.



### **Pedal Keyboards:**

It's a device that functions as a programmable three-button keyboard which can be used in conjunction with a regular keyboard. It can be used as an alternative to conventional mouse clicks.



### **Concept Keyboards;**

They are keyboards that typically consist of 128 programmable cells with strings of characters or actions associated with each of them.

