

Electronic device and colour codes

Introduction

- **Level:** A2
- **Skills:** Reading
- **Topics:** Vocabulary (Actions)

The enigma

- **Keywords**

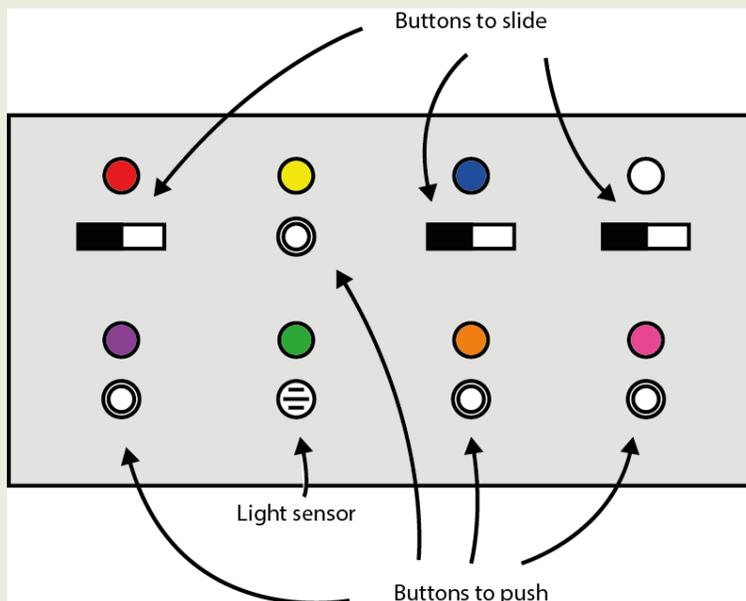
Electronic - List of actions

- **Toolbox**

Arduino/Raspberry - Basic electronic components (LEDs, wires, buttons, light sensor...) - different kinds of electronic switches - a locker connectable to an electronic card - desk lamp

- **Description of the enigma**

The players find an electronic device hidden in a box on a wall that can't be moved. This device has buttons and LEDs:



Electronic device and colour codes

The players find a table of actions hidden somewhere else in the room but not close to the electronic device:

A/ Keep pushing the ... button until you release the next one	1/ red
B/ Push the ... button and release it	2/ yellow
C/ Hold the ... switch to release the ... one	3/ blue
D/ Put the device in front of a light	4/ white
E/ Hide the device from the bright light	5/ purple
F/ Push the ... switch to the right	6/ green
G/ Push the following switches to the left: ...	7/ Orange
	8/ pink



Electronic device and colour codes

Then, players find a list hidden under a carpet:

G134
D
A5
B2
F3
C57
F14
B1
E

Performing the list of action above will unlock the box and the players can find a clue for the rest of the game.



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Hints

The actions must be performed in a specific order (if players don't understand what to do with the device)

You walked on the instructions (to find the action list hidden under the carpet)

More information

Possible restrictions

This enigma requires to build an electronic device. You should be able to craft it or to have support from a colleague from a Tech class or an external organization (such as another school or a Maker Space)

Enigmas involving colors could be difficult to solve for **color blind** players. Make sure that the majority of your students are not color blind to put this kind of enigma in your escape room.

Also, **SLDs** could incur difficulties to manipulate small switches with accuracy. Check that your electrical device is adapted (switches' size and/or the space between the switches).

