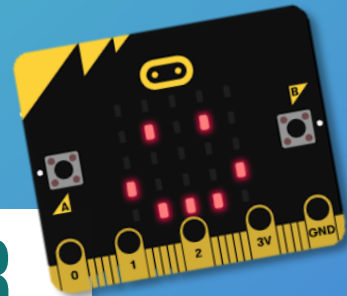




Lauréats 2022-2023

YES WE CODE!



FONDATION  
cGENial

**Design & Domotique**

**Environnement**

**Jeux & Loisirs**

**Robotique**

**Santé**

**Sécurité**

**Social**

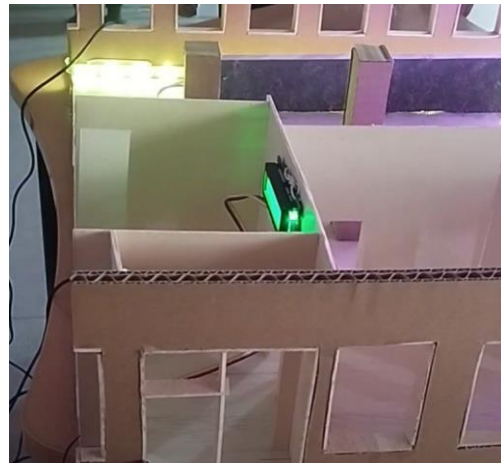
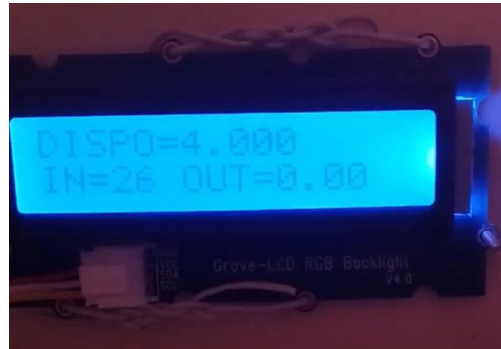
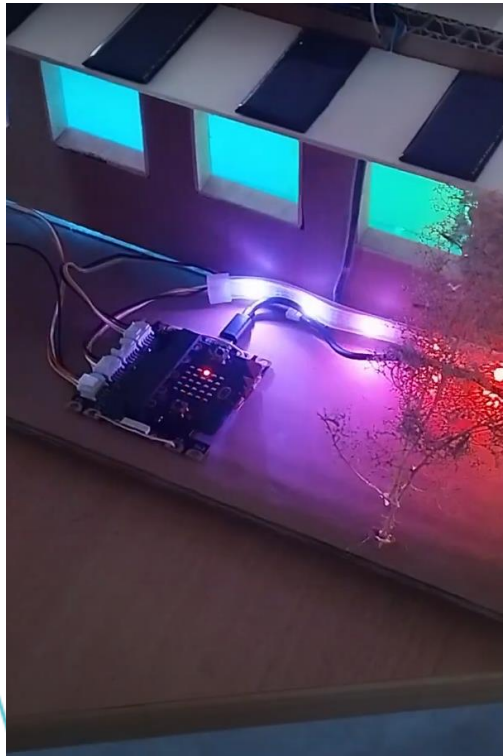
**Sport**

**Découvrez les lauréats nationaux collège & lycée**

# Design & Domotique

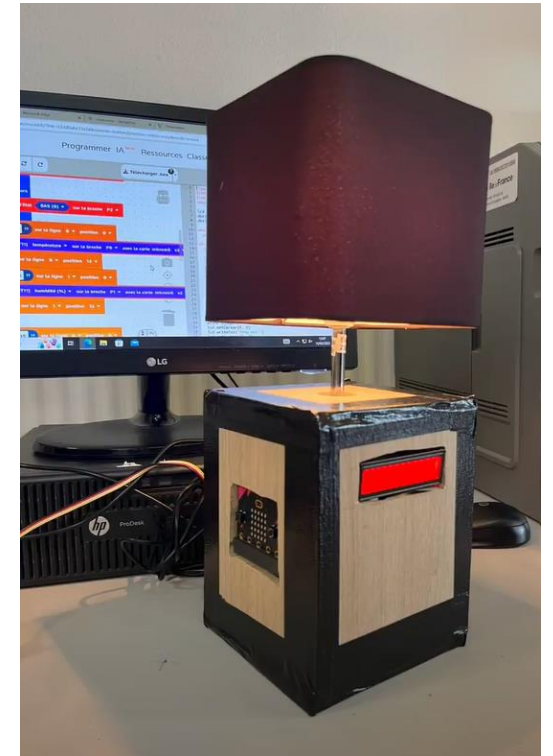
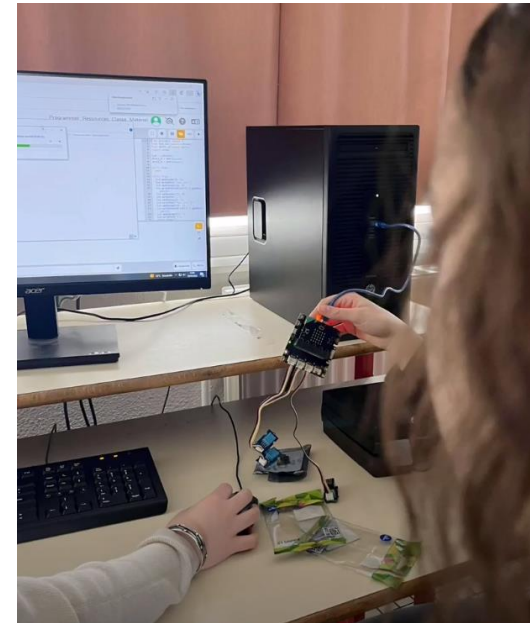
Ac. de Nancy-Metz | Collège Joliot-Curie (Dieulouard)

Les architectes du futur - Classe de 4ème



Ac. de Créteil | Lycée Charles de Gaulle (Rosny-sous-Bois)

Lampe de chevet intelligente - Classe de seconde



# Environnement

Ac. d'Aix-Marseille | Collège Henri Wallon (La Seyne sur Mer)

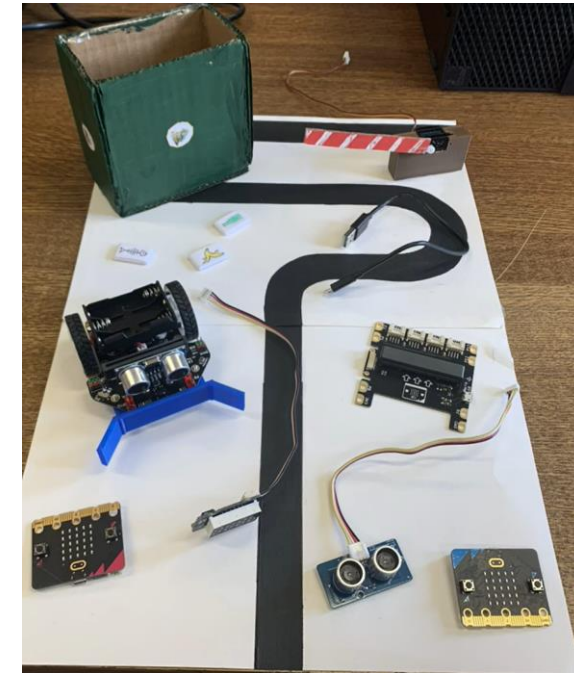
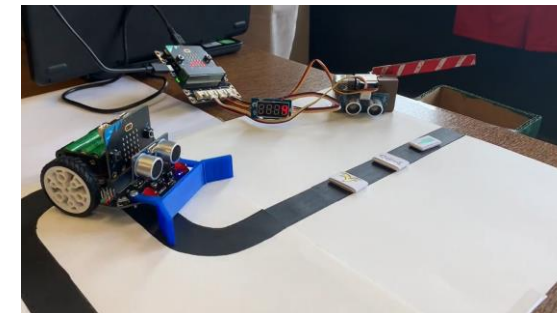
Autour des ruches - Classe de 6ème



Lauréat national *collège*

Ac. de Normandie | Lycée Malherbe (Caen)

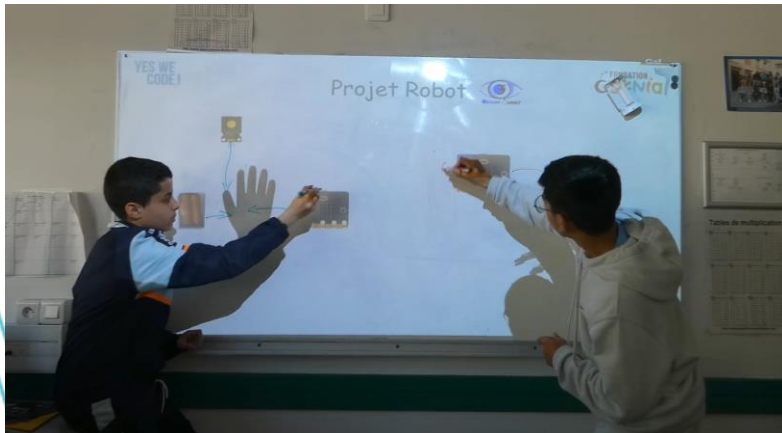
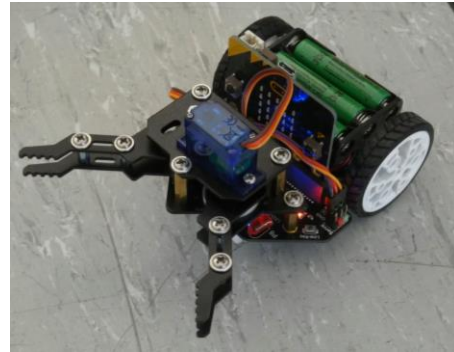
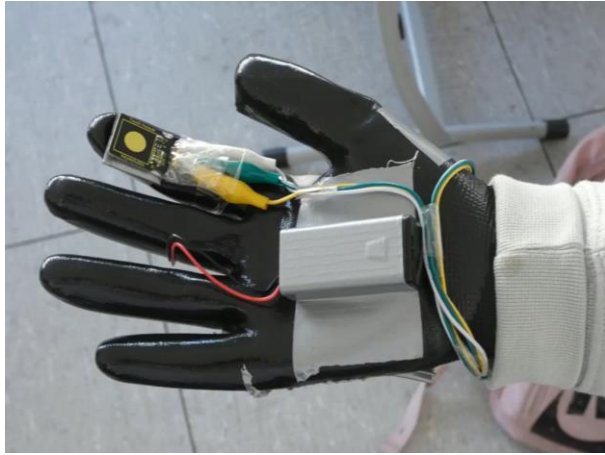
Le robot écologique - Classe de seconde



# Jeux & Loisirs

Ac. d'Aix-Marseille | Collège Edgar Quinet (Marseille)

Yes We Escape - Classe de 6<sup>ème</sup>, 5<sup>ème</sup> et 3<sup>ème</sup>.



Ac. d'Orléans-Tours | Lycée Thérèse Planiol (Loches)

Labyrinthe - Classe de première



```
1 # Add your Python code here. E.g.
2 from microbit import *
3 import radio
4 haut = Image("00900:"
5             "09900:"
6             "00909:"
7             "00900:"
8             "00900:")
9 bas = Image("00900:"
10            "00900:"
11            "00909:"
12            "09900:"
13            "00900:")
14
15 def envoyer(message):
16     radio.send(message)
17
18 radio.config(group = 7)
19 radio.on()
20 while True:
21     sleep(200)
22     envoyer("0")
23     if button_a.is_pressed():
24         envoyer("A")
25         sleep(200)
26         envoyer("0")
27
28     elif button_b.is_pressed():
29         envoyer("B")
30         sleep(200)
31         envoyer("0")
32
```

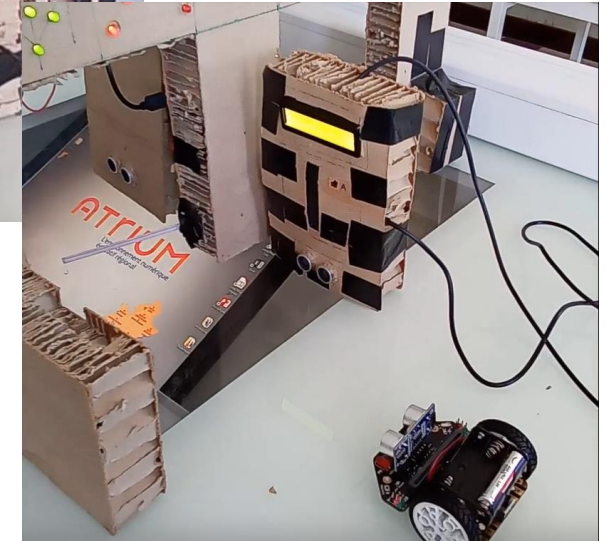
## Joute robotique - Classe de 4ème



## Programme "suivre une ligne"



## Simulation péage - Classe de terminale



# Santé

Ac. de Bordeaux | Collège Damira Asperti (Penne d'Agenais)

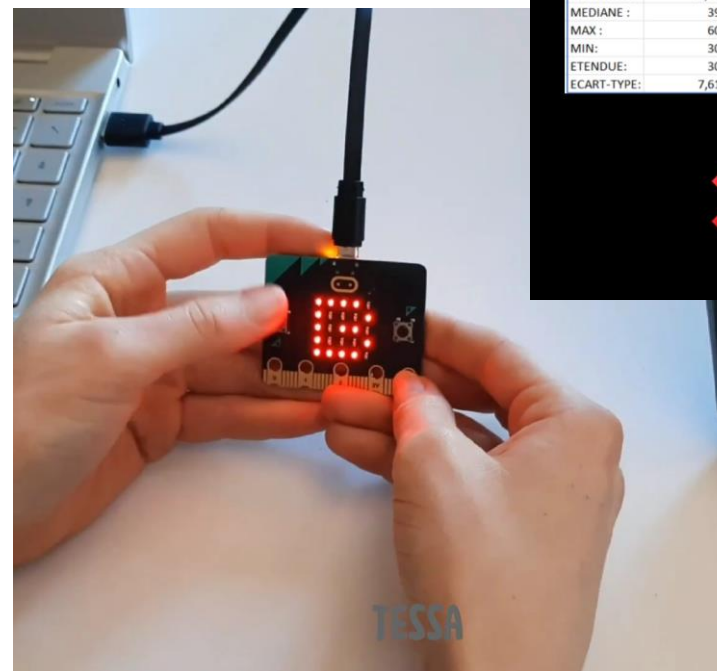
Le Dstricament - Classe de 3ème



Ac. de Montpellier | Lycée La Trinité (Béziers)

Les adolescents jouant aux jeux vidéo ont-ils des réflexes psychomoteurs plus performants ?

- Classe de première



| Etude statistique des scores des adolescents jouants |       |
|------------------------------------------------------|-------|
| MOYENNE:                                             | 40,46 |
| MEDIANE :                                            | 39    |
| MAX :                                                | 60    |
| MIN:                                                 | 30    |
| ETENDUE:                                             | 30    |
| ECART-TYPE:                                          | 7,61  |

✓ 40,46

| Etude statistique des scores des adolescents ne jouants pas |       |
|-------------------------------------------------------------|-------|
| MOYENNE:                                                    | 38,62 |
| MEDIANE :                                                   | 39    |
| MAX :                                                       | 56    |
| MIN:                                                        | 26    |
| ETENDUE:                                                    | 30    |
| ECART-TYPE:                                                 | 6,90  |

✗

PIERRE

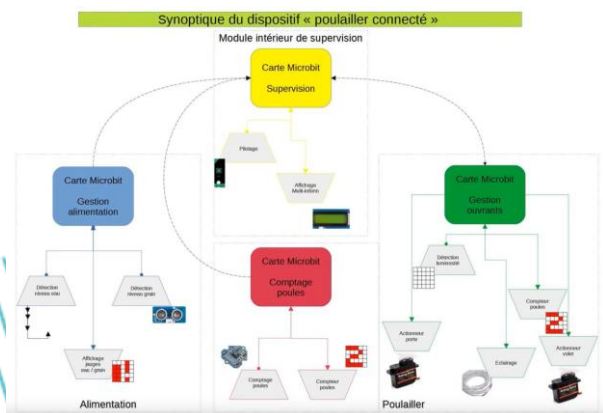
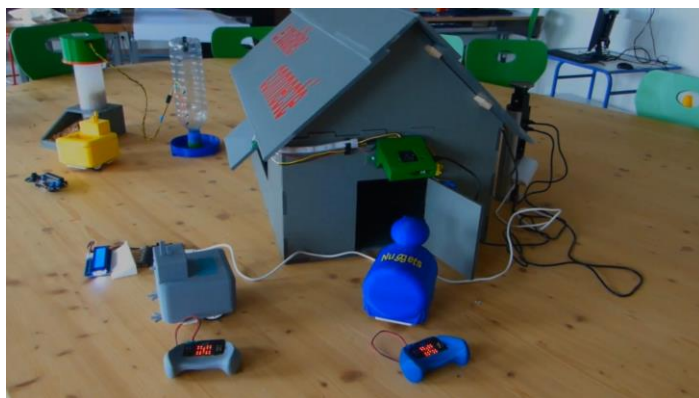
# Sécurité



Lauréat national *lycée*

Ac. de Poitiers | Cité scolaire Jean Moulin (Montmorillon)

Le Poulailier connecté - Classe de 6<sup>ème</sup> et 5<sup>ème</sup>

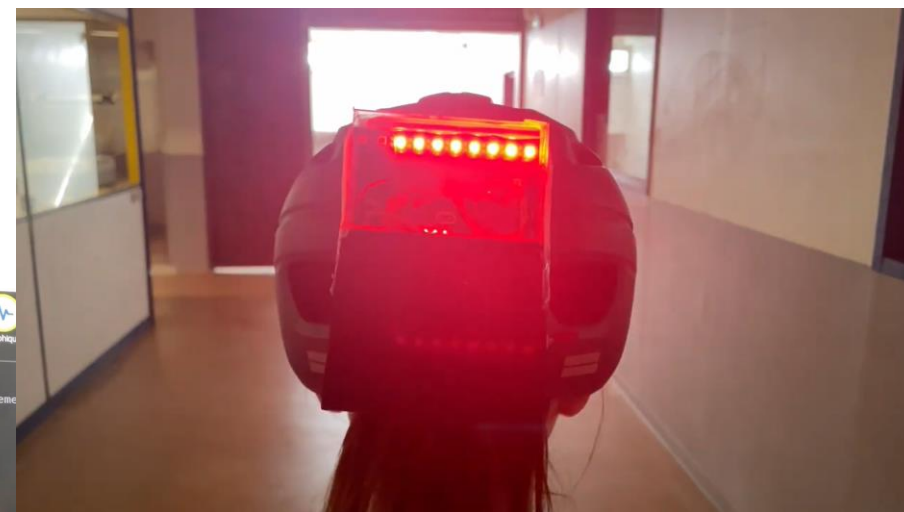


Module intérieur de supervision



Ac. d'Aix-Marseille | Lycée Adam de Craponne (Salon de Provence)

Casque de vélo intelligent - Classe de première



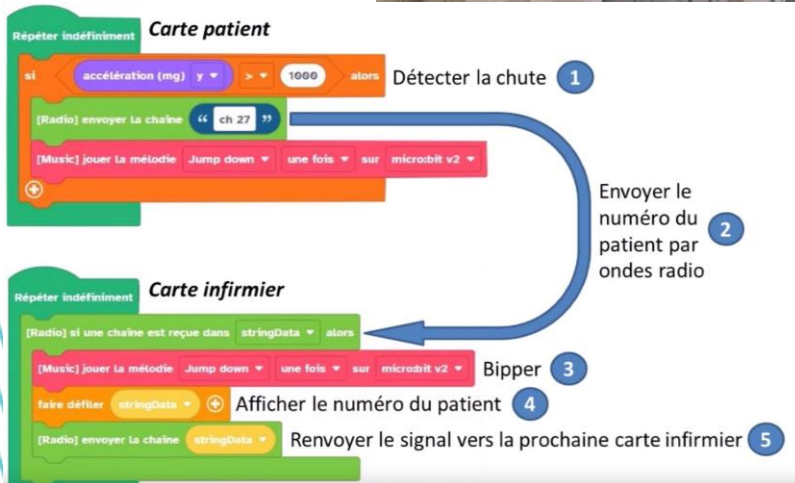
```
Mode Nouveau Charger Enregistrer Flasher Fichiers REPL Graphique
34 sleep(7000)
35
36 # action des différents mouvements
37 else:
38     if gestur < -350:
39         display.show(1)
40         cligno = 1
41     elif gestur > 350:
42         display.show(2)
43         cligno = 2
44     elif gestur < 750:
45         cligno = 0
46         display.show(0)
47
48 # clignotant gauche
49 elif cligno == 1:
50     strip[7] = [255, 128, 0]
51     strip.show()
52     sleep(50)
53     strip[6] = [255, 128, 0]
54     strip.show()
55     sleep(50)
56     strip[5] = [255, 128, 0]
57     strip.show()
58     sleep(50)
59     strip[4] = [255, 128, 0]
60     strip.show()
61     sleep(50)
62     strip[3] = [255, 128, 0]
63     strip.show()
64     sleep(50)
65     strip[2] = [255, 128, 0]
```



# Social

Ac. d'Amiens | Collège Gerard Philipe (Soissons)

Tech Alarm - Classe de 5<sup>ème</sup> et 4<sup>ème</sup>



Ac. d'Orléans-Tours | Lycée Marguerite de Navarre (Bourges)

Détecteur de couleur pour daltonien - Classe de seconde



```

47 display.show(1)
28 sleep(3000)
29 v=tcs3472.rgb()[1]
30 display.show(v)
31 sleep(3000)
32 b=tcs3472.rgb()[2]
33 display.show(b)
34 sleep(3000)
35 if 0<=r and r<=8 and 0<=v and v<=8 and 0<=b and b<=8:
36     display.show('noir')
37 if 223<=r and r<=255 and 223<=v and v<=255 and 223<=b and b<=255:
38     display.show('blanc')
39 if 165<=r and r<=165 and 48<=v and v<=98 and 0<=b and b<=50:
40     display.show('marron')
41 if 207<=r and r<=255 and 183<=v and v<=255 and 0<=b and b<=80:
42     display.show('jaune')
43 if 223<=r and r<=255 and 72<=v and v<=173 and 0<=b and b<=64:
44     display.show('orange')
45 if 80<=r and r<=255 and 0<=v and v<=40 and 0<=b and b<=30:
46     display.show('rouge')
47 if 130<=r and r<=255 and 0<=v and v<=30 and 80<=b and b<=210:
48     display.show('rose')
49 if 33<=r and r<=204 and 31<=v and v<=104 and 102<=b and b<=255:
50     display.show('violet')
51 if 0<=r and r<=32 and 0<=v and v<=80 and 119<=b and b<=255:
52     display.show('bleu foncé')
53 if 0<=r and r<=176 and 199<=v and v<=255 and 215<=b and b<=255:

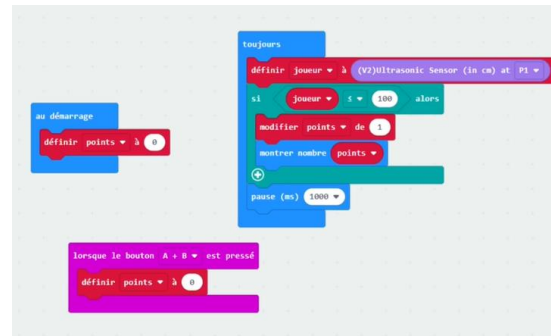
```



# Sport

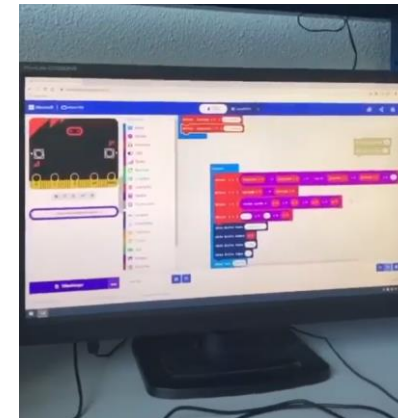
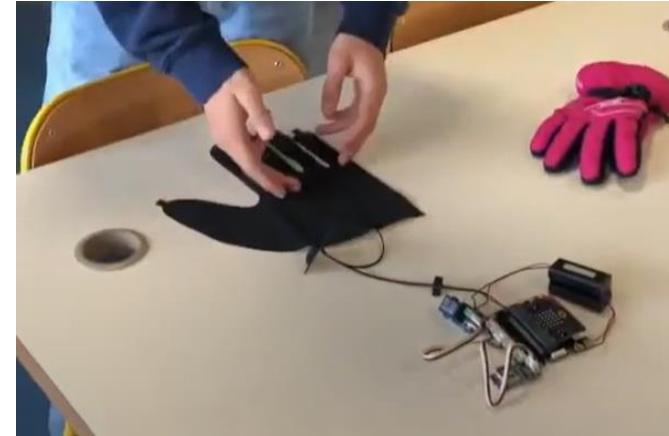
Ac. de Rennes | Collège Pierre Mendès France (Morlaix)

SmarTTable - Classe de 5<sup>ème</sup>



Ac. de Bordeaux | Lycée de la Mer (Gujan-Mestras)

Gants chauffants - Classe de seconde



# Merci pour votre engagement !

 Suivez-nous sur Twitter :  
**#YesWeCode et @Fond\_CGenial**