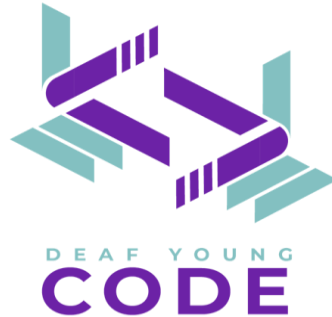




2023-2-IT03-KA220-YOU-000179130

worksheets for module 3

introduction to coding

use as individual work or team work



Worksheet – Introduction to Coding

Module: Introduction to Coding

Duration: 90 minutes

Level: Beginner

Target group: Deaf youth learning essential digital literacy

Teacher's Note:

Encourage participants to work in pairs. Use real or simulated pseudocode or email examples and allow hands-on device use for engagement.

Warm-Up-Quiz – What is Coding?

- A - secret password that only the computer knows
- B - precise step-by-step instructions on how to do something
- C - particularly fast computer with lots of storage space
- D – a special program language

Part 1 – Coding Languages

For Coding you need a coding language. Look at the list with 5 important coding languages?

Tick the correct answers

Python

Editor

JavaScript

Scratch

Email

Java

C++

source code

Part 2 – Step to step –Instructions

Exercise: Bicycle Bell

Numbering the Instructions in the correct order

START

CHECK that thumb button is easy to reach

GO to handlebar

TIGHTEN screw again

REPOSITION bell

TEST bell again

TAKE screwdriver

TAKE bicycle bell

LOOSEN screw on bell holder

OPEN bell clamp PLACE bell on handlebar

CLOSE clamp around handlebar

TIGHTEN screw

TEST the bell

IF bell doesn't ring well OR wobbles

THEN LOOSEN screw

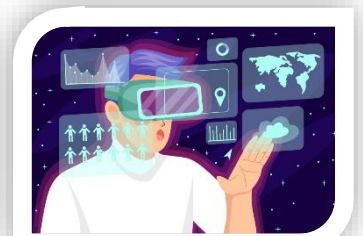
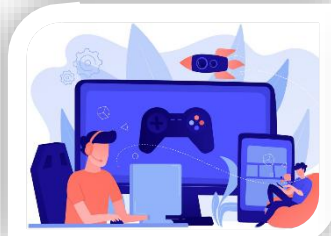
REPOSITION bell

END



Part 3 – Applications of Coding

Name 4 important applications



Part 4 – Write a code (Pseudo-code)

Task: Tooth brushing algorithm



allday langugae	coding
	START
Go to the bathroom.	go_to('bathroom')
Take your toothbrush.	take('toothbrush')

Take the tube of toothpaste.	
Open the toothpaste.	
Squeeze some toothpaste onto the toothbrush.	
Put the toothbrush under the water (wet it briefly).	
Place the toothbrush on your teeth.	place_on('toothbrush', 'teeth')
Move the toothbrush over all your teeth for 2 minutes.	
Spit out the toothpaste.	
Rinse your mouth with water.	
Rinse the toothbrush.	
Put the toothbrush and toothpaste back.	
	END

Part 5 — Reflection

- What did you learn today?
- What was difficult for you?
-
- What would you like to practice more?

Annex:

Solution: Part 3 – Bicycle Bell

START

TAKE screwdriver

TAKE bicycle bell

GO to handlebar

LOOSEN screw on bell holder

OPEN bell clamp

PLACE bell on handlebar

CHECK that thumb button is easy to reach

CLOSE clamp around handlebar

TIGHTEN screw

TEST the bell

IF bell doesn't ring well OR wobbles THEN

LOOSEN screw

REPOSITION bell

TIGHTEN screw again

TEST bell again

END

Solution: Part 4

START

go_to('bathroom')

take('toothbrush')

take('toothpaste')

open('toothpaste')

squeeze_toothpaste_onto('toothbrush')

wet('toothbrush')

place_on('toothbrush', 'teeth')

brush_teeth(2 minutes)

spit_out()

rinse_mouth_with_water()

rinse('toothbrush')

put_back('toothbrush')

close('toothpaste')

END