



ARTIE: Artificial Intelligence in Education - challenges and opportunities of the new era: development of a new curriculum, guide for educators and online course for students

Project co-funded by European Union under Erasmus+ Programme, 2020-1-HR01-KA201-077800

## **TITLE: Smart home**

LEARNING SCENARIO	
School:	Duration 90 (minutes):
Teacher:	Students age:

Essential Idea:	Let's create a smart device in a smart home
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## **Topics:**

- designing, creating and writing in a visual programming language: ideas, stories and solutions to problems of varied complexity
- experimenting with AI
- civilization related implications of AI

## Aims:

- design, create and test simple programs
- understand the concept of variable, define and use variable it in their programs

#### Outcomes:

• creating and testing simple program that present smart device at smart home

#### Work forms:

• individual work, work in pairs, group work

## Methods:

presentation, talk, discussion, interactive exercise

# ARTICULATION

The course of action (duration, minutes)

## **INTRODUCTION**

The teacher leads a conversation in which students revise the commands and skills of working in Scratch.







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The teacher starts a discussion:
Do we use smart devices every day?
What are smart devices?
Why do we call these devices smart devices?
Can houses be smart?
Which houses are "smart"?

A smart home refers to a convenient home setup where appliances and devices can be automatically controlled remotely from anywhere with an internet connection using a mobile or other networked device.

## Announcement of the goal of the lesson:

Today we are going to create smart devices as a part of the smart home using Scratch.

#### **MAIN PART**

#### Instructions (steps):

## Stage:

```
when so clicked

forever

ask Enter your command and wait

if answer = Turn on the fan then

broadcast turn-fan-on v

if answer = Turn off the fan then

broadcast turn-lamp-on v

if answer = Turn off the lamp then

broadcast turn-lamp-on v
```

#### Fan:

```
when I receive turn-fan-on ▼

set on ▼ to yes

repeat until on = no

mext costume

when I receive turn-fan-off ▼

set on ▼ to no

when I receive turn-fan-off ▼

set on ▼ to no
```



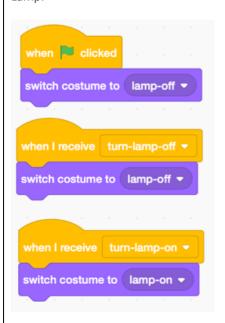




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## Lamp:



Present your project to the students in the class. Discuss. Peer evaluation. Save your work to the class e-portfolio.

## **CONCLUSION**

A smart home refers to a convenient home setup where appliances and devices can be automatically controlled remotely from anywhere with an internet connection using a mobile or other networked device. We can create smart devices as a part of the smart home using Scratch.

Methods		Work forms	
presentation talk/discussion work on the text graphic work interactive exercise /simular	interview demonstration role playing tion on the computer	individual work work in pairs group work frontal work	

### Material

Scratch





Literature



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•	https://dancingwithai.media.mit.edu
	PERSONAL OBSERVATIONS, COMMENTS AND NOTES

