Print your future

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This scenario comprises 5 activities . Students start with revising English vocabulary on 3D printing, go through demonstrative videos on designing and printing , selecting appropriate templates and eventually print out their own designs.

LEARNING OBJECTIVES

Students develop their creativity

Students develop their collaboration, communication and critical thinking skills

Students learn how to stick to deadlines, how to deal with failure, how to self-reflect on their work

Analysing factors

C'S OF EDUCATION

COLLABORATION | COMMUNICATION | CRITICAL THINKING | CREATIVITY

AGE GROUP

From 16 to 19

SCENARIO LANGUAGE

English

TOTAL DURATION

2 hours

SUBJECTS

DESIGN - TECHNOLOGY | LANGUAGES

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15 MINUTES

Vocabulary revision

EXCHANGE & DISCUSS

C'S OF EDUCATION

COLLABORATION | COMMUNICATION

TOOLS

Computers, internet connection, large display screen . Wardwall application.

SPACE FORMAT

Public

POSITION OF LEARNERS

Together

ROLE OF TEACHER

Teacher-led

DESCRIPTION

Tell students that they are supposed to match words to their definitions using Woodwall application. Two groups of students compete with each other.

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20 MINUTES

Video presentation

INTERACT & INSTRUCT

C'S OF EDUCATION

CRITICAL THINKING

TOOLS

An interactive whiteboard, a computer.

SPACE FORMAT	POSITION OF LEARNERS	ROLE OF TEACHER
Public	Together	Teacher at the side

DESCRIPTION

Student sit facing the interactive whiteboard watching a video on on 3D printing .

30 MINUTES

Template investigation

CREATE

C'S OF EDUCATION

CRITICAL THINKING

CREATIVITY

TOOLS

Computer, internet connection, 3 D printing templates software .

SPACE FORMAT	POSITION OF LEARNERS	ROLE OF TEACHER
Public	Small groups	Independent learning

DESCRIPTION

Each group gets 30 minutes to conduct the research on templates for 3 D printing and design their own project.

PREPARATION FOR THE PROJECT

30 MINUTES

Printing out students` designs

CREATE

C'S OF EDUCATION

COLLABORATION

TOOLS

3D printers, computers, 3D printing software

SPACE FORMAT	POSITION OF LEARNERS	ROLE OF TEACHER
Private, limited distraction	Small groups	Teacher at the side

DESCRIPTION

Each group prints out their designs.

25 MINUTES

Presentation

PRESENT & SHARE

C'S OF EDUCATION

COLLABORATION

COMMUNICATION

SPACE FORMAT

Public

POSITION OF LEARNERS

Together

ROLE OF TEACHER

Teacher at the side

DESCRIPTION

Students present their designs to the whole group and receive feedback .

RESEARCH PHASE FOR THE PROJECT

PROJECT OUTCOME

Co-funded by the Erasmus+ Programme of the European Union

NOVIGADO

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