

PROJECT  
INVENTIONS THAT CHANGED THE WORLD

LESSON 1

Activity 1

Time: 25 minutes

Type of activity: conversation, problem solving

Class organization: pair work

Procedures: The teacher launches the following challenge:

“Imagine how life would be without.....”

Using a cube (Appendix 1), the students are divided into four groups and imagine life without:

- CARS
- ELECTRICITY
- TV'S
- PHONES

The teacher rotates the cube, each group receives a task. The students have 15 minutes to describe how they see life without inventions and what solutions they can find to their problems. Debates are being carried out between students and teacher.

Activity 2:

Time: 15 minutes

Type of activity: presenting first inventions

Class organization: individual work

Procedure: under the teacher's guidance, based on the following links:

<https://www.youtube.com/watch?v=XzG1aPw7YBc>

<https://www.youtube.com/watch?v=RGK6nIE6hw0>

The students identify the importance of first inventions that changed the history.

## Lesson 2

### Activity 1:

Time: 15 minutes

Type of activity: PPT presentation and debate

Class organization: individual work

Procedure: The teacher presents the topic of the lesson based on a PPT entitled "10 INVENTIONS THAT CHANGED THE WORLD", focusing on how human life was improved.

### Activity 2:

Time: 15 minutes

Type of activity: identifying the advantages and disadvantages of scientific progress and discoveries

Class organization: individual work

Procedure: The teacher hands Appendix 2 to students, starting from Victor Hugo's text, the students identify three advantages and three disadvantages of the steam engine.

### Activity 3:

Time: 15 minutes

Type of activity: Technological Revolutions: Advantages & Disadvantages

Class organization: individual work

Procedure: The teacher suggests the following link <http://www.oecd.org/environment/the-cost-of-air-pollution-9789264210448-en.htm>

The industrial society: advantages and risks. The first industrial revolution changed the economic and social landscape of the world. Industrial and mining centers appeared, new ways and means of transport were built. After 1880, the use of new sources of energy, electricity, natural gases and oil, led to new changes in society, launching the second stage of the industrial revolution. The urban world developed rapidly bringing along numerous advantages (urban systematization, sewage systems, health and education system) but also disadvantages (overpopulation of cities, migration from the village to the city, unemployment, pollution).

Homework: Carry out a comparative research on the effects of railway transportation on the environment in the Nineteenth century and in our days.

## Lesson 3

### Activity 1:

Time: 15 minutes

Type of activity: designing a brochure

Class organization: individual work

Resources: paper, colored pencils, scissors, glue.

Procedure: The teacher asks students to make a brochure to describe an object that can make life easier. The students present their work and debates are being held on the topic.

### Activity 2:

Time: 10 minutes

Type of activity: funny inventions made by children

Class organization: individual work

Procedure: <https://www.youtube.com/watch?v=rSvMbK0x6cA>

### Activity 3:

Time: 25 minutes

Type of activity: Role play: "INTERVIEW"

Class organization: team work

Procedure: students are divided in two groups:

- THE INVENTORS GROUP
- THE REPORTERS GROUP

The teacher hands the students the inventor interview sheet (Appendix 3), the students in the reporters group address at least 5 questions to their peers in the inventors group. The questions will be displayed on a poster in the class.