

SUBJECT AREAS:

Natural science

ACTIVITY DESCRIPTION:

To understand the importance of how important it is to raise awareness about water pollution and how it can affect all of us.

OBJECTIVES:

- To raise the awareness of nature conservation, and
- To find appropriate methods for its preservation.

MATERIALS:

Notebook, pencil, video projector, tablets or computer, internet access.

GRADE/LEVEL:

Secondary school (15-18)

DURATION:

Preparation time: 1 hour

Activity time: 45 min.

PLACE:

Classroom

AUTOR:

*Centro per lo Sviluppo Creativo
"Danilo Dolci" - Italy*

Water pollution

INTRODUCTION:

The lesson will begin by watching the following video.

<https://www.youtube.com/watch?v=Om42Lppkd9w>

Then, through discussion, the students will be introduced to the topic of the lesson, which is water pollution. The questions should be asked here: Why do we need clean water? When can we say that water is polluted? Who can pollute water?

BACKGROUND:

Water pollution, the release of substances into subsurface groundwater or into lakes, streams, rivers, estuaries, and oceans to the point that the substances interfere with beneficial use of the water or with the natural functioning of ecosystems. In addition to the release of substances, such as chemicals, trash, or microorganisms, water pollution may include the release of energy, in the form of radioactivity or heat, into bodies of water.

Procedure:

Outline: This lesson will be done in the classroom, students will be involved during the lesson with the quiz, after which they will learn more by watching the video.

Instruction: The lesson will start with a short quiz in mentimeter where students will answer on questions about water pollution and its causes. After this teacher will present the main causes of water pollution. It is possible to show the video about water pollution that can help students understand.

Guided Practice: Students will be asked to propose solution to this problem. Water is a main source we need to survive, being aware of how each of us could contribute to the prevention of this problem is very important.

Formative Assessment: The water pollution affects everybody, raising awareness about this problem is one of the most important things to do.

Collaborative Process: Students can be divided in pairs or small groups and they can work together on solutions for water pollution.

FUN FACTS:

- *Fresh water on earth is only 2.5% of the total water when 70% of the earth's surface is covered by water.*
- *Around 70% of industrial waste is dumped to water.*
- *80% of the water pollution is caused due to domestic sewage.*

ASSESSMENT:

At the beginning of lesson students will do the quiz about which will show their initial knowledge about this topic, the same quiz can be done at the end of lesson to compare their knowledge.

EVALUATION:

The students should write down what types of water pollution they were introduced to during the lesson?