

Learning Unit sample

Title: The Energy and us. Alternative energies

Class 14 years olds	
Subjects involved	Technology-Science-English
Number of lessons 3	Timing 6 hours

TEACHING AIMS		LEARNING OUTCOMES	
<ul style="list-style-type: none"> To present the ... To introduce the concept and main features of the ... To make learners aware and build on prior knowledge To help learners understand that learning can be achieved in a second language To help learners understand that keeping a record of new words is important 	<p>Conceptual knowledge: what learners will know by the end of the lesson/unit.</p>	<p>Procedural skills: what learners will be able to do by the end of the lesson/unit</p>	<p>Attitudes and dispositions: what learners will be aware of by the end of the lesson/unit</p>
	<p>Learners will know about...</p> <ul style="list-style-type: none"> what energy is and its different sources the problems that traditional sources of energies are causing in the world today our challenges to create and use alternative energies 	<p>Learners will be able to...</p> <ul style="list-style-type: none"> observe and talk about energy looking at pictures, at diagrams or a text discriminate between non renewable and renewable resources understand the process of the greenhouse effect talk about the value of renewable resources 	<p>Learners will be aware of...</p> <ul style="list-style-type: none"> what scientists say: "Climate change will put world at tipping point" the importance of our attitudes towards sustainable development

Content (subject matter):

Introduction to the concept of energy and its sources.

Understand the problems we are currently facing with traditional energies.

Understand what alternative energies are and their importance in our globalized world.

Independent research.

Communication

LANGUAGE OF LEARNING

Vocabulary: essential vocabulary; names of different sources

Structures: present/past tenses; comparatives

Functions: asking for; giving information;

LANGUAGE FOR LEARNING

Vocabulary: same

Structures: same

Functions: giving reason; suggesting; predicting; describing ...

<p><i>Materials and Resources:</i> IWB, blackboard, beamer, worksheets, photocopies, pictures, videos (<i>you tube</i>)....</p>
<p>Cognition (learning and thinking processes) <i>Hots and Lots</i>, problem solving, reflecting on challenges</p>
<p>Culture (developing intercultural understanding) Use of energy resources in Italy and in other countries: similarities and differences.</p>

LEARNING UNIT STEPS	
TEACHING/LEARNING ACTIVITIES WITH TASKS SUBDIVIDED IN SINGLE LESSONS	
LESSON 1	Title: Energy. Concept and sources.
LESSON 2	Title: Problems with traditional energies.
LESSON 3	Title: Alternative energies.
<p><i>Example: Lesson 1</i></p> <ul style="list-style-type: none"> • WARM UP OF THE UNIT: (activating prior knowledge) Brainstorming: What do you know about energy? 	
<ul style="list-style-type: none"> • FIND OUT TASKS: (giving new input, usually not through a frontal lesson, but by discovery learning) <ul style="list-style-type: none"> - ACTIVITY 1: Starter, Introduce the topic by looking at some visuals Teacher asks questions - ACTIVITY 2: TASK 1: Definition of energy and sources Definition (given the first letter, teacher asks the Ss to call out the word) TASK 2: Showing a video; discussion; ask for opinion; worksheet 1; - 	
<p><i>Example: Lesson 2</i></p> <ul style="list-style-type: none"> • SORT OUT TASKS: (what you want your students know) <ul style="list-style-type: none"> - ACTIVITY 1: TASK 3: Dictation (Dicto-gloss) Teacher reads, Ss take notes, the Ss dictate the text back to the teacher - ACTIVITY 2: TASK 4: LET'S INVESTIGATE! Teacher asks a question; Ss use the computer to find out the answer - ... • ENDING LESSON: Reading. Thomas Alva Edison 	

ASSESSMENT

Formative assessment for learning (on-going process):

T. designs frequent, interactive assessment tests of students understanding. T. observes students' participation in the activities. T. takes note of their interest and gives feedback to the students.

Summative assessment of learning:

12 multiple choice questions test
Oral interview.

