

## Acid rain

*Level:* upper-intermediate (B2)

*Time:* 45 minutes

*Aims:*

- To learn about acid rain
- To learn about different effects of acid rain
- To learn about the acid rain causes
- To learn vocabulary connected with conservation
- To look for specific information in the internet
- To read for specific information
- To transfer the information.

*Language functions:*

- To describe the environment pollution
- To plan and analyze
- To compare and analyze
- To use vocabulary connected with conservation
- To look for specific information
- To read for specific information
- To use the research for project.

*CLIL:* Biology/ Chemistry/ Geography/ IT technology

*Materials:* web pages, worksheets, PowerPoint presentation

STAGE	AIMS	PROCEDURE	TIME	MATERIALS
Warm-up activity	To provide students with introduction to the topic. To talk about acid rain.	Start your lesson asking your students what they know about acid rain. Students can work in pairs or small groups depending on the size of your class. Allow some time for short discussion and then ask each pair/group to present their answers. You may put some of the ideas on the board.	5 min	
Main part of the lesson	To introduce the topic. To get students interested. To work with web pages. To look for specific information. To transfer the information. To cooperate. To solve the problem.	<b>1.Introduction</b> Ask your students to go to page : <a href="http://www.youtube.com/watch?v=SyEr17yFX-Y">http://www.youtube.com/watch?v=SyEr17yFX-Y</a> and watch a film about acid rain. The material in the video presents causes, effects and solutions to the acid rain. After watching the video, allow some time for a short discussion. Then give your students worksheet A and ask to complete the questions concerning acid rain. Give them some time to think about it. Check their answers after given time.	15 min	<a href="http://www.youtube.com/watch?v=SyEr17yFX-Y">http://www.youtube.com/watch?v=SyEr17yFX-Y</a>  Worksheet A

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		<p><b>2. Task</b> Show your student a short PowerPoint presentation about acid rain. Divide your class into 3 groups. Each group will have the same task to do (see worksheets B/C/D). They have to find out more information about acid rain. Give your students about 10 minutes to do this task.</p> <p><b>3. Presentation</b> After this time, ask students to present their findings. Each group presents some facts and interesting things they were able to find in the internet.</p>	<p>15 min (5 minutes for presentation and 10 minutes for the task )</p> <p>8 min</p>	PowerPoint presentation Worksheets
Wrap-up	Project – webquest Evaluation	Tell your students that they will have to create a webquest about acid rain on the basis of the information they found out during the lesson.	2 min	

### Sources:

[http://www.ncsu.edu/project/bio183de/Black/chemreview/chemreview\\_reading/acid\\_rain.html](http://www.ncsu.edu/project/bio183de/Black/chemreview/chemreview_reading/acid_rain.html)

<http://www.ypte.org.uk/environmental/acid-rain/1>

<http://nadp.sws.uiuc.edu/educ/acidrain.aspx>

<http://www.conserve-energy-future.com/causes-and-effects-of-acid-rain.php>

<http://www.clean-air-kids.org.uk/acidrain.html>

*Credits:* pictures of acid rain: [www.ypte.org.uk](http://www.ypte.org.uk)

### Notes:

*Worksheets:* A/ B/ C/ D – Students' own answers.

Students may use other internet resources, however some guidance is required. Give your students a list of links to be used during the lesson.