

Dear students,

Your class is taking part in a study which is being carried out in eight European countries. We are testing ways of improving the teaching of biology, chemistry, and physics. For this purpose we designed new instruction units, some of which are now tested in your class. To inform us how this way of teaching is accepted by students, we kindly ask you to fill in a questionnaire both before and after this instruction unit.

The questionnaire is anonymous. No information will be disclosed about your name, your school or your academic achievement, nor will your answers to this questionnaire affect your grades in any way.

Martin Lindner and Wolfgang Gräber, University of Kiel, Germany

Please enter a code, following the instructions below.



Special characters count as one proper character, e.g., enter ä as ä.

	1. Third character of your father's first name
	2. Second character of your mother's first name
	3. First character of your mother's maiden name
	4. Third character of your place of birth
	5. Your month of birth (in two digits), e.g., July = 07

Age: _____ years


Male


Female


An oxidation	
	Please check the right answer(s)
is always the reaction of a substance with oxygen	<input type="checkbox"/>
occurs when something is burnt	<input type="checkbox"/>
can also occur in the absence of oxygen	<input type="checkbox"/>
none of the above	<input type="checkbox"/>

A fire extinguisher	
	Please check the right answer(s)
sprays water onto the flames	<input type="checkbox"/>
sprays substances which cut the oxygen supply off the burning material	<input type="checkbox"/>
applies large amounts of nitrogen onto the flames	<input type="checkbox"/>

only works if one sprays directly into the flames	
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It is less harmful for climate	Please check the right answer(s) 
to burn natural gas instead of petroleum	
to burn biogas instead of wood	
to burn wood instead of petroleum or natural gas	

When fire occurs in a room, firefighters' advice is to keep the doors and windows closed because	Please check the right answer(s) 
too much smoke is harmful for climate	
because otherwise the fire source will be hidden from the firefighters by smoke	
oxygen supply will be cut off the fire	
nitrogen from the air will extinguish the fire	

The carbon cycle displays	Please check the right answer(s) 
how coal is formed	
how carbon dioxide is distributed throughout the atmosphere	
how coal, via intermediate stages, can become new coal	
how we can obtain energy from lignite	

Please comment on the following statement:
If something burns, climate is harmed.

Please complete this sentence:
If something burns, ... is/are generated.

Please comment as detailed as possible on this newspaper headline:
The world's petroleum resources are being irretrievably destroyed.
