

# Biology

**Delprov A2**  
engelsk version

Årskurs

9

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Elevens namn och klass/grupp



12. In Sweden, more than 50 kg of food per person is thrown away every year. Examples of foodstuff thrown away are vegetables, meat, and milk.

**Your task is to:**

Argue why it is important to reduce the amount of food that is thrown away.

Your argumentation has to have two arguments in two steps. You should start from your knowledge about the use of natural resources, for example water, fossil fuels or nutrients in the soil.




### 13. Eye operations

The text is about eye operations.

Source: DN.se (newspaper Dagens Nyheter). Published 2014-01-20.

#### **Medical doctors warn about the risks**

More and more Swedes have their eyes operated on, in order to avoid glasses. The county councils meet an increasing number of people with problems after the operations. There is a worry among eye doctors that the information about the risks is poor.

The method of correcting sight problems through laser surgery was first used in the beginning of the 90s. Since then, the sector has almost explosively increased in step with the development of the technique.

There are no exact data on how many Swedes have had an eye operation, but it is probably tens of thousands every year. This is presented in, for example, a survey done by the Swedish Ophthalmological Society in 2011 presenting the number of lens operations at some of the largest clinics in the country. The result was about 20 000 persons.

– It was many more than we thought and the number has increased considerably since then, says Sven Crafoord, the chair of the society, senior physician at the Eye Clinic at Örebro University Hospital. Since this concerns complex operations that might give severe complications, the Swedish Ophthalmological Society wants to introduce a quality register of the private clinics.

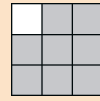
A larger awareness of the risks of the procedures is also requested. Within the county councils, Crafoord claims, they meet more and more patients with complications.

– It is important to map out how common these operations are and reach out with information to people about the inconvenience you might get afterwards. We see from the cases we meet, that people are disappointed and say that they were not aware of this.

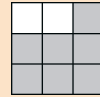
According to the Vårdguiden, about 10% are affected by side effects, for example impaired contrast and night vision, blurry light sources, and double vision after eye surgery.

**Your task is to:**

- a)** Find scientific information in the text and state a risk with eye operations.



- b)** Working from the text, reason about the text's trustworthiness from two different perspectives of source criticism.



**a)**

**b)**

### 14. Tilapia or char?

Fish farming is one of the largest growing food industries in the world. Depending on the fishes farmed, from a scientific perspective, there are both positive and negative consequences.

Facts about farming of tilapia	Facts about farming of char
<p>Tilapia</p> <ul style="list-style-type: none"> <li>demands water of 28 degrees Celsius and is therefore farmed indoors in heated basins and can be farmed in the whole of Sweden</li> <li>is seldom affected with diseases</li> <li>eats forage that consists of fish meal from other fishes</li> <li>produces excrement that can be recovered and used as fertilisers for fields.</li> </ul>	<p>Char</p> <ul style="list-style-type: none"> <li>demands water with a temperature lower than 15 degrees Celsius and is therefore farmed outdoors in ponds or cages in the north of Sweden</li> <li>is sometimes affected with diseases</li> <li>eats forage that consists of fish meal from other fishes</li> <li>produces excrement that is spread into the immediate environment.</li> </ul>

**Your task is to use the information from the fact box and write a text where you shall:**

- Take a stance for farming of tilapia or char.
- Formulate two arguments in two steps arguing for the fish species you have chosen and formulate one argument in two steps arguing against one of the two fish species.
- Be objective and use relevant scientific concepts in the arguments.



**My stance is:**

**Write your text:**



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