

# Biology

## Delprov A3

engelsk version

Årskurs

9

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Elevens namn och klass/grupp

## Planning of a systematic investigation in biology

### How can you investigate if a medical drug works?

A pharmaceutical company is developing a new medical drug against high blood pressure.

#### Facts

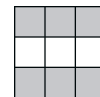
##### Drug evaluation

Before a medical drug can be approved for use, it has to be tested on a number of volunteers. In a drug evaluation, the volunteers can test the new drug, an already approved drug, or a so-called sugar pill. A sugar pill contains no medical drug, but might have a placebo effect as the volunteers think that the sugar pill is the medical drug.

##### Placebo effect

In this case, the placebo effect is that the blood pressure will be reduced even though the volunteer gets the sugar pill.

12. Your task is to plan an investigation where you find out if a new medical drug reduces the blood pressure of people with high blood pressure.



An already approved drug and sugar pills shall be a part of the investigation.  
In summary 1200 volunteers shall participate.

You shall write an instruction where you step by step describe how to do the investigation to decide if a new medical drug reduces the blood pressure of people with high blood pressure.

*The plan shall be thorough enough for someone else to follow it.*



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