

# Physics

## Delprov A3 engelsk version

Årskurs

9

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Elevens namn och klass/grupp

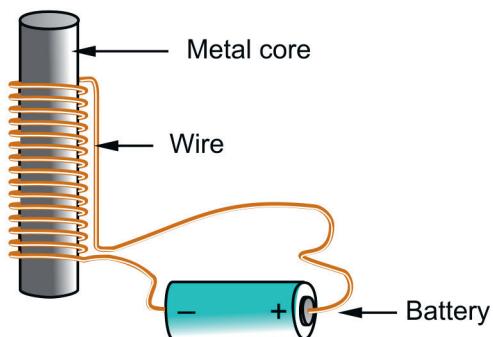
## Planning of a systematic study in physics

### How is the magnetic field of an electromagnet influenced?

Electromagnets can be used in many everyday situations, for example to lift different heavy objects made of iron, or to remove alarm tags on clothes.

#### Facts

Electromagnet

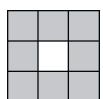


The strength of an electromagnet is influenced by the following factors:

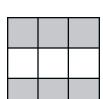
1. The electric current
2. The diameter of the wire
3. How the wire is wrapped around the metal core.

**16. a)**

- Choose one of the factors. Write a hypothesis about how that factor influences the strength of an electromagnet.
- Justify your hypothesis using your knowledge in physics.



- b) Write an instruction where you, step by step, describe how to perform an investigation to try your hypothesis  
and  
how to interpret the result.



## Planning:

### a) Hypothesis

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### b) Method



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