

1. Before the Experiment

Definition of **piezoelectricity**: _____

Task 1

- a) Complete Figure 2 by constructing the charge concentrations Q^+ and Q^- of the three positive and the three negative charge concentrations respectively.

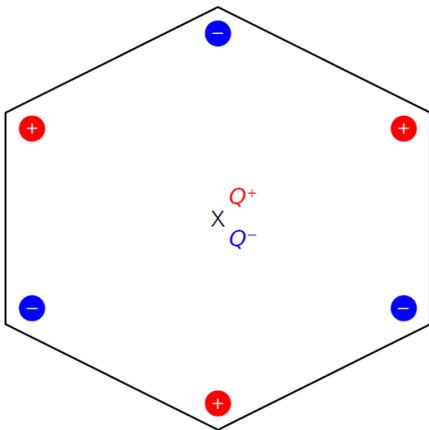


Figure S1. Piezoelectric substance without a force being applied.

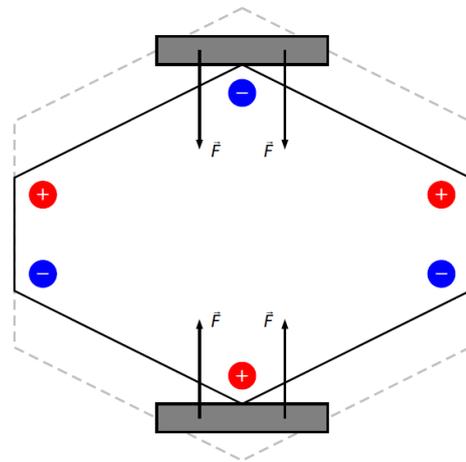


Figure S2. Piezoelectric substance when a force \vec{F} is applied.

- b) In which direction the voltage is formed in Figure 2 – perpendicular, parallel or diagonal to the applied force?

Task 2

In addition to the piezoelectric effect, there is a so-called *inverse piezoelectric effect*. Describe it in your own words.

2. After the Experiment

Task 3

Summarize your observations by noting the relationship between the force exerted and the voltage measured in the following sentence:

The higher the mechanical force on the piezoelectric substance, the _____
 _____.