

# FIRST LAW OF THE THERMODYNAMICS

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## SUMMARY

In this work, the principle of the first law of thermodynamics was used, which establishes that the change in the internal energy of a system,  $\Delta U$ , is equal to the net heat transferred to it,  $Q$ , plus the net work done on it, aiming to verify this through an online simulator. In the procedure with the specific materials of the simulation, an assembly was carried out. This setup was suitable for observing the increase in internal energy (Temperature) of a body caused by friction. The pertinent calculations were carried out on the data obtained and it was observed that the results would be better if the diameter of the cylinder (materials) decreased, since less work is done and the change in internal energy would decrease. The speed variable with which the revolution counter is rotated is not taken into account, since only the revolutions made were taken, therefore, the constant speed of rotation is negligible, and according to graph 1, it was seen an increase in the internal temperature of the cylinder as the number of turns increased, all of this generated by the friction of the rope with the surface of the cylinder.

**Keywords:** Law of thermodynamics, specific heat, temperature

## ABSTRACT

In this work we use the principle of the first law of thermodynamics, which states that the change in the internal energy of a system,  $\Delta U$ , is equal to the net heat transferred to it,  $Q$ , plus the net work done on it, aiming to verify this by means of an online simulator. In the procedure with the specific materials of the simulation, an assembly was carried out. Said assembly was provided to observe the increase in internal energy (Temperature) of a body caused by friction. The pertinent calculations of the obtained data were made and it is observed that the results would be better if the diameter of the cylinder (materials) decreased, since less work is done and the change in internal energy would decrease. The speed variable with which the revolution counter is turned is not taken into account, since only the turns that are made were taken, therefore, the constant speed of rotation is negligible, and according to graph 1, it was seen an increase in the internal temperature of the cylinder as the number of turns increased, all this generated by the friction of the rope with the surface of the cylinder.

**Keywords:** Law of thermodynamics, specific heat, temperature

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**Sebastian Brünink**



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