Newton's third law

MathsNET
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- Before wathcing the video try to explain what you understanding the following physics terms to mean**conservative vector field**,**energy**,**potential** and**how are potentials and forces related**

- What does Newton's third law state.

- Can you explain why in the video I insist that action is not the same as force.

- If the momentum of a system increases by Δp what is the corresponding in the change of momentum in the environment?

Newton's third law

- Explain what is meant by the term conservative vector field. How much does the momentum of a particle change by when it moves around a circular path in a conservative vector field.

- How is the kinetic energy calculated from the momentum. How is this expression derived? Is energy a scalar of a vector quantity making sure that you justify your answer?

- Explain why we introduce the notion of potential energy rather than considering the kinetic environment of the environment explicitly.

- How are forces related to potentials?