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How do students use the knowledge of conservative and non-conservative forces when solving work and energy theorem problems?

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The concept of conservative force and non-conservative forces play a vital role in solving problems related to the application of the principle of conservation of energy and momentum, but they are generally ignored when solving quantitative problems. First year students usually assumed that the system is isolated even if isolated case has to be proven first before the equation is used. The study explores if students are using the knowledge of conservative and non-conservative forces when approaching problems dealing with work and energy theorem.

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