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understand them associate images with them when you look at a machine or structure try to see the fundamental principles in either action or missing with a deep knowledge of these fundamental principles one can rapidly generate strategies and concepts with the greatest viability

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these principles are reinforced via 1 hands on laboratory experiences wherein students conduct experiments and disassemble machines and 2 a substantial design project wherein students model design fabricate and characterize a mechanical system that is relevant to a real world application

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mechanics is a branch of physics in general mechanics allows one to describe and predict the conditions of rest or movement of particles and bodies subjected to the action of forces aristotle was among the first scholars to introduce the term mechanics

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principles of mechanical systems most products rely on movement to work eg in a pair of scissors the blades need to move together to cut this movement is called a motion and the motion of a

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the basic principles of mechanical engineering are the principles of physics that apply to motion and energy these principles include the laws of motion energy and thermodynamics mechanical engineers use these principles to design and analyze the performance of mechanical systems such as engines and machines

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