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before proceeding be sure you understand the distinctions among force work energy and power force exerted on an object over a distance does work work can increase energy and energy can do work power is the rate at which work is done 1 power is all about converting whatever your work into the work with 1 second of window 2 in most cases you do work for more than 1 sec thus you have to do divide them by the time it take to do the work e g work of pushing a box right 30j time 3s power work time 30j 3s 10j 1s 10w meaning you do 10j amount of work per 1 sec on work energy and power are fundamental concepts of physics work is said to be done when a force push or pull applied to an object causes a displacement of the object we define the capacity to do the work as energy power is the work done per unit of time explore the concept of power in physics through an example of two weightlifters one who lifts faster than the other to see that power measures the rate at which work is done finally 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