

Work, Power & Simple Machines



Name Class Date Lawn mower A mows the lawn in 30 The fixed pulley on a flagpole makes minutes. Lawn mower B mows the work easier by _ same lawn in 15 minutes. Which mower does more work? A changing the direction of work input B decreasing the work input MowerA Mower B C increasing the work output They do the same amount of work. D increasing the mechanical Neither is doing work. advantage 3 You do 5,000 joules of work during a In the diagram below, a worker is pushing bike ride and the bike does 4,500 joules a barrel up a ramp. Another name for this of work. What is the mechanical ramp is a(n) 5 **PREVIEW** Please Sign In or Sign Up to download the printable version of this worksheet 7 to calculate the mechanical advantage of this shown below be increased? simple machine? A increase the diameter A length of the axle and width of the wheel of the axle length of the axie and weight of the whe C radius of the axle and increase the thickness of the wheel radius of both the whee length of the increase the diameter of the w and axle D increase the mass of the whee 9 Knowing that an arm is a type of lev pulley system has 50% work et determine where the fulcrum is in the If the work put in is 100 joules, the amount picture of the arm below. of work done by the system is efficiency = work output x 100 **A** 1 work input **B** 2 A 100 joules **C** 3 B 200 joules **D** 4 C 75 joules **D** 50 joules



Work, Power & Simple Machines



Name Class Lawn mower A mows the lawn in 30 The fixed pulley on a flagpole makes minutes. Lawn mower B mows the work easier by _ same lawn in 15 minutes. Which mower does more work? A changing the direction of work input B decreasing the work input MowerA Mower B C increasing the work output They do the same amount of work. D increasing the mechanical Neither is doing work. advantage 3 You do 5,000 joules of work during a In the diagram below, a worker is pushing bike ride and the bike does 4,500 joules a barrel up a ramp. Another name for this of work. What is the mechanical ramp is a(n) 5 **PREVIEW** Please Sign In or Sign Up to download the printable version of this worksheet 7 to calculate the mechanical advantage of this shown below be increased? simple machine? A increase the diameter A length of the axle and width of the wheel D of the axle length of the axie and weight of the whe C radius of the axle and increase the thickness of the wheel radius of both the whee length of the increase the diameter of the w and axle D increase the mass of the whee 9 pulley system has 50% work et Knowing that an arm is a type of lev determine where the fulcrum is in the If the work put in is 100 joules, the amount picture of the arm below. of work done by the system is efficiency = work output x 100 **A** 1 work input **B** 2 A 100 joules **C** 3 B 200 joules **D** 4 C 75 joules **D** 50 joules