COLEGIO INGLÉS DURKHEIM

JUNE 2022
6TH GRADE
EXAM

SCIENCE

Name: _____ **Group:** _____ **Date:** _____

1 15 Listen and match.

a ___ Romans	**1** It is the ratio of the output force over the input force.
b ___ input force	**2** They built aqueducts that are also examples of inclined planes.
c ___ mechanical advantage	**3** They used inclined planes to move materials to construct the pyramids.
d ___ output force	**4** It is the force used to move an object on an inclined plane.
e ___ Egyptians	**5** It is the force needed to move an object vertically without using an inclined plane.

____ / 5

Read and match.

a ___ It is a simple machine made of a bar that moves around a fixed point.	**1** efficiency
b ___ It is the force or energy applied or transferred to an object.	**2** inclined plane
c ___ It is the percentage of input work that is converted into output work.	**3** work
d ___ It is a simple machine shaped like a ramp.	**4** simple machine
e ___ It is a basic device that makes work easier.	**5** lever

____ / 5

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Read and complete with words from the box.

mechanical	compound	wedges	conversion		
simple	robots	input	axle	output	MA

A [1] _____ machine consists of two or more [2] _____ machines put together so that the output force of the first is the [3] _____ force of the second and the [4] _____ force of the second is the input force of the third, and so on until all the machines are in use. This process is what we call the energy [5] _____ path of a compound machine. Therefore, the [6] _____ advantage (MA) of a compound machine is the product of the [7] _____ of each simple machine that composes it. Generally, a compound machine can do more difficult jobs than simple machines. For example, a bicycle is a compound machine in which the wheels and pedals form two wheel and [8] _____ systems, the brakes are formed by lever systems and, in some bicycles, the seat adjustment is a screw. Modern automobiles, airplanes and [9] _____ are very complicated compound machines formed by levers, screws, wheels and axles, [10] _____ and inclined planes.

____ / 10

____

Read and write the corresponding word.

a It is a machine that uses two or more simple machines to do work. c ___ ___ ___ ___ ___ ___ ___

b It is a simple machine made of a wheel and a rope or chain. p ___ ___ ___ ___ ___

c It is a branch of engineering that studies the design, manufacture, theory and application of robots. r ___ ___ ___ ___ ___ ___ ___

d It is an inclined plane wrapped around a cylinder that converts spiral force into linear force. s ___ ___ ___ ___

e It is two inclined plnes put back to back. w ___ ___ ___ ___
