

System (global function, inputs, processes, outputs, control)

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Components of a system

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1. Complete the sentences below using the words in the box.

operation
time
materials

system
sequence
outputs

processes
controls
mechanisms

global function
inputs
machines

- A technological system is a group of components or _____ or an apparatus assembled to perform a specific function.
- The _____ of a system describes what the system as a whole must accomplish.
- System inputs are the components that enter into a _____ and are necessary for its _____. People, information, _____, equipment, energy, capital and _____ are examples of inputs.
- _____ constitute a _____ of operations that a system performs on _____ to carry out its function.
- _____ are the various components needed to control or change what happens in a system.
- System _____ are the components that exit a system after it has performed an operation.

2. Answer the following questions about the bicycle system.

- Name four components of this system.

- Fill in the following table, which includes an example for each of the six components defined in question 1.

Component	Example of the bicycle
System	
Global function	
	Muscle strength
Control	
	Transformation of muscle force into bicycle movement
	Movement of the bicycle