

The short test 1 - Mechanics A, B and C

1. Match the word with its definition:

1.	kinematics
2.	dynamics
3.	hydraulics
4.	hydrostatics
5.	gas dynamics

Answers:

1.	
2.	
3.	
4.	
5.	

A	is a technology and applied science using engineering, chemistry, and other sciences involving the mechanical properties and use of liquids.
B	is the branch of fluid mechanics that studies "fluids at rest and the pressure in a fluid or exerted by a fluid on an immersed body".
C	is a subfield of physics that describes the motion of objects without considering the forces that cause them to move.
D	is the branch of fluid mechanics that deals with flows having significant changes in fluid density.
E	is concerned with the relationship between motion of bodies and its causes, namely the forces acting on the bodies and the properties of the bodies, particularly mass and moment of inertia.

2. Use the words from the box in the right position in the sentences:

torque	disciplines	displacements	environment	motions
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Mechanics is the area of physics concerned with the _____ of macroscopic objects

Forces applied to objects result in _____, or changes of an object's position

relative to its environment. _____ of mechanics are: statics, kinematics and

dynamics. Statics is the branch of mechanics that is concerned with the analysis of loads (force and

_____ or "moment") acting on physical systems that do not experience an

acceleration, but rather, are in static equilibrium with their _____.

3. Answer the question:

1. What is kinematics, as a field of study, often referred to as?
