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idealize a simple mechanical system or component as a collection
of particles or rigid bodies, and to use Newtonian mechanics, with
the aid of analytical or computational methods, to analyze forces
and motion in the idealized system.

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5

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mechanics - good approx. Need to be more sophisticated for
objects which are: very small - quantum mechanics very fast -
special relativity very heavy - general relativity. Math model
1.Physical quantities !math objects 2.Make simplifications
3.Physical laws !equations 4.Solve the equations

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