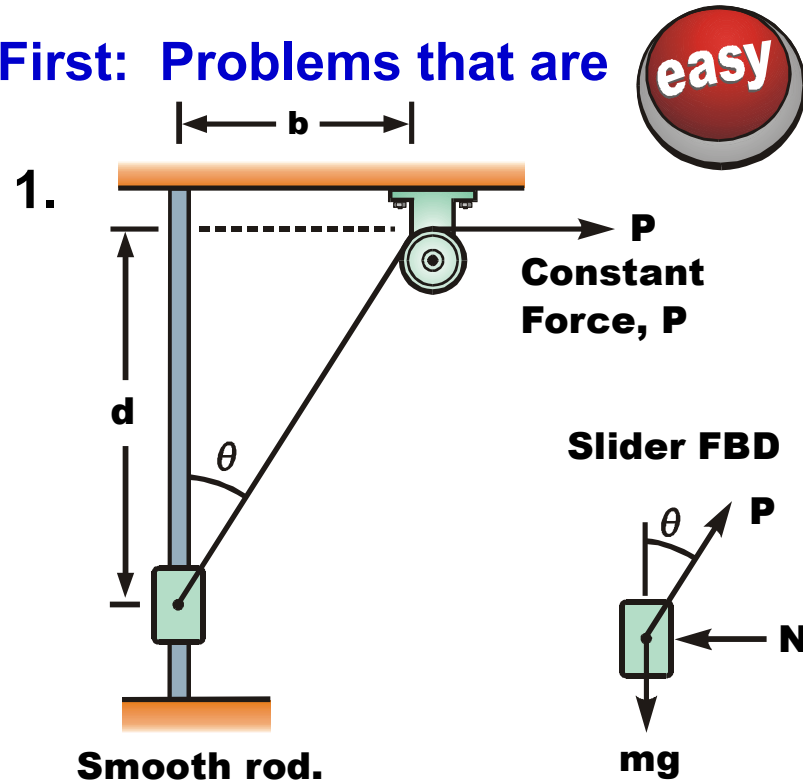


Work-Energy (WE) Equation for Particles

An overview of problems that are **easy** using the **Work-Energy equation** compared to the $F = ma$ method.

And, problems that are **hard** with either method.

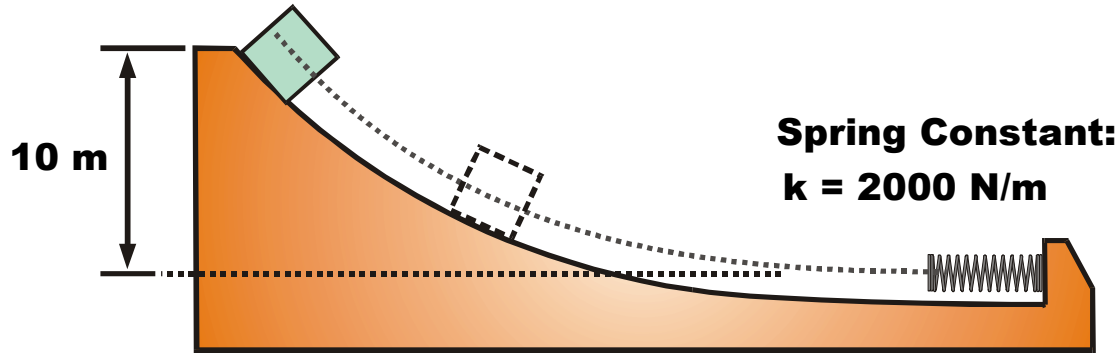
First: Problems that are **easy** using the **Work-Energy equation**.



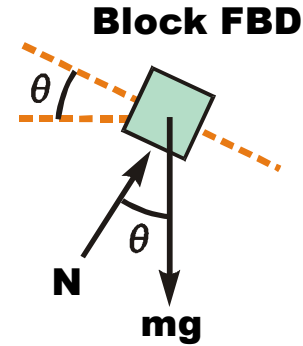
If friction (μ) present,
difficult with both WE and $F=ma$.

Cont'd: Problems that are **easy** using the Work-Energy equation.

2. **Crate released from rest.**

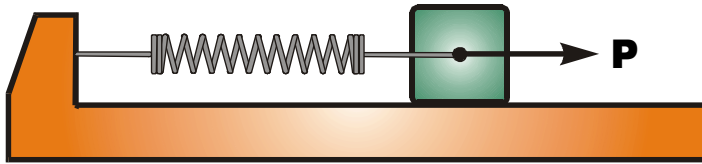


Smooth Slope
If friction (μ) present,
difficult with both WE and $F=ma$.

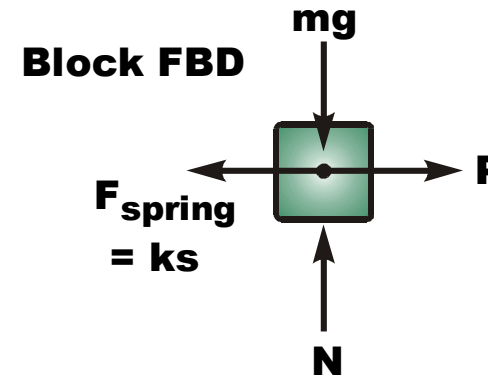


Cont'd: Problems that are **easy** using the Work-Energy equation.

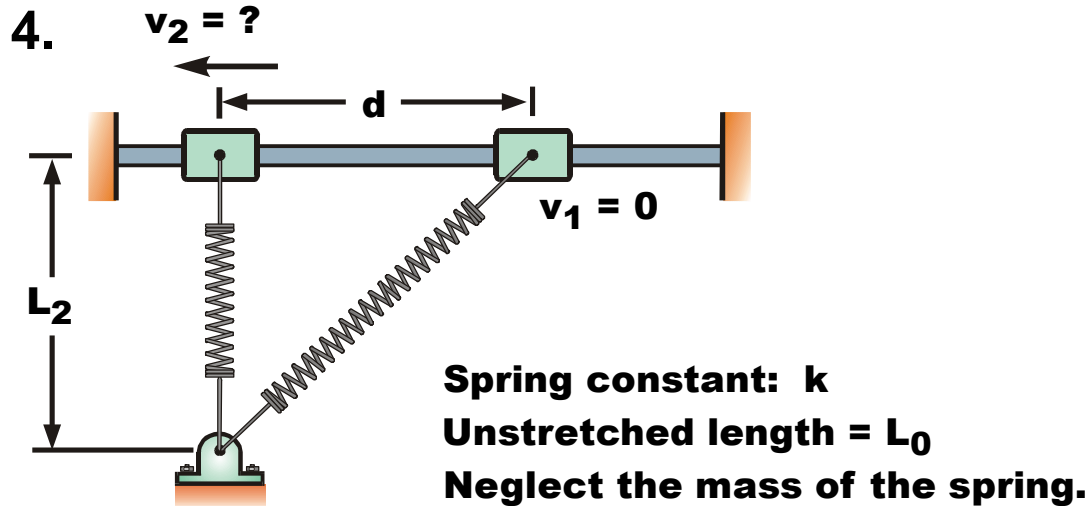
3.



If friction (μ) present,
manageable with WE.



Cont'd: Problems that are **easy** using the Work-Energy equation.



Smooth rod
If friction (μ) present,
difficult with both WE and $F=ma$.

Slider FBD

