## Unit 6

Work, Energy, and Conservation of Energy

$$
K E=1 / 2 m v^{2}
$$

$$
\begin{gathered}
W=F d=m a d=E=Q \\
P E_{G}=m g h \\
\Sigma W=\Delta K E=\left(1 / 2 m v_{f}^{2}-1 / 2 m v_{i}^{2}\right) \\
W_{F}=F_{F} d=F_{N} \mu d \\
Q_{\text {level }}=m g \mu d \\
\text { Qincline }=m g \cos \theta \mu d \\
V^{2} \quad P E_{s}=1 / 2 K X^{2} \quad F=-K X
\end{gathered}
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