

Friction – Guided Notes

What is friction?

If you looked at a smooth surface under a microscope, what would you see?

Is it easier to get a shopping cart moving, or keep it moving? Why?

Two types of friction:

1. _____ Symbol: _____

2. _____ Symbol: _____

Friction Graph

Applied Force (N)



Frictional Force (N)

Coefficient of Friction Equation

The coefficient of friction is:

Equation:

$$F_f = \underline{\hspace{15em}}$$

$$F_N = \underline{\hspace{15em}}$$

$$\mu = \underline{\hspace{15em}}$$

Slope Diagrams

Flat Surface Diagram:

Equation for Normal Force:

Slope Diagram:

Equation for Normal Force:

What happened when the phone books were interleaved, and why?

