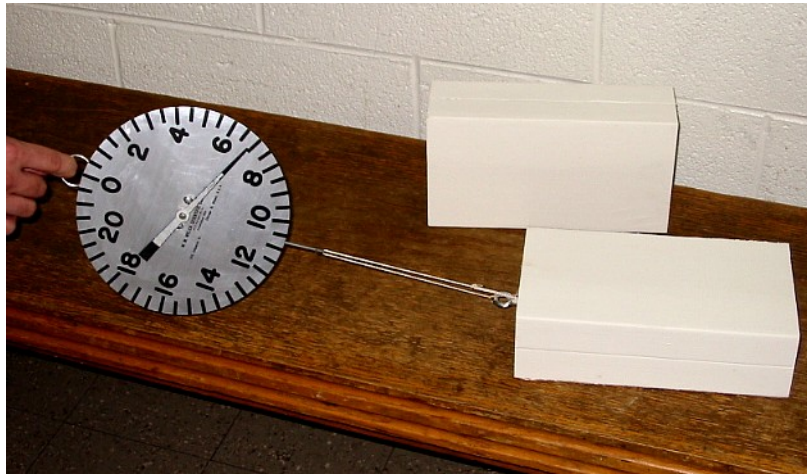


Friction



Purpose: Demonstrates the general nature of static and kinetic friction.

This is a simple demo showing some of the basic features of friction. By dragging the block with the spring scale, one can show that it takes more force to get the block moving than to keep it going ($m_s > m_k$). The block is shaped so that one surface is (roughly) half the area of the other, so you can show (for a given mass) that friction is independent of area. By stacking the matching block you can show that twice the force is needed, demonstrating the rationale for defining the frictional forces as proportional to the normal force.

Extra Equipment: None.

Location: Shelf A4.