Friction

Whenever you push an object along the ground you are working against a force of kinetic friction.

Kinetic friction always acts in the opposite direction to motion. In Unit 3 we learnt that:

F_{rection} = μ_{toron}N

This is the force you are working against. We can adapt our work done equation for working against frictional forces:

- W = F s
- Work done against friction = force due to kinetic friction × distance moved
- $W_{summ} = \mu_{local} N \times s$

For example, we can determine the work done in pushing a 100 kg wooden block 30 m across a horizontal concrete floor with $\mu_{\rm b} = 0.48$

W_{summ} = μ_{sum}N×s

In this case the normal contact force is equal to the weight (as the floor is horizontal) and so

$$N = w = mg$$
 Express N in terms of weight

N = 100 kg × 10 N/kg Substitute in known values and complete calculation

$$W_{param} = \mu_{move} N \times s$$
 Express W_{param} in terms of frictional force and distance moved

$$W_{phonon} = 0.48 \times 1000 \text{ N} \times 30 \text{ m}$$
 Substitute in known values and

This energy has been transformed into heat energy where the block and surface rub together.

Gravity and friction

If you were to push or pull on object up a ramp then you end up doing work against both friction and gravity!

In this case the total work done could be found using the following equation:

 Total work done = work done against gravity + Total work done = work done against friction

Work done against gravity = weight \times vertical distance moved.

•
$$W_{marrier} = w \times h$$

Work done against friction = force due to kinetic friction \times distance moved up ramp.

W_{friction} = μ_{kinotic}N × s



Figure 4.7 Working against friction

KEY WORDS

heat energy energy that is transferred between two objects as a result of their difference in temperature

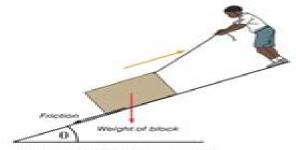


Figure 4.8 Working against friction and gravity

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