

A 20 kg object moving at 24 m/s slows to 3 m/s due to friction.

A) How much energy is converted to heat?

The loss of E_k turns to Q .

$$E_{k_i} = \frac{1}{2}(20)(24)^2 = 5760 \text{ initial}$$

$$E_{k_f} = \frac{1}{2}(20)(3)^2 = 90 \text{ final}$$

so $\Delta E_k = 5670 \text{ J}$

B) If the box absorbs three-fourths of the energy, how much does it gain?

$$5670(.75) = 4253 \text{ J}$$

C) Is the box or the floor a better conductor?

box - because it absorbs more of the Q .

D) If the box is made up copper and originally at 22°C , what is its final temperature after it stops?

$$Q = mc\Delta T = 20(387)(T_f - 22)$$

$$4253 = 7740(T_f - 22)$$

$$.549 = T_f - 22$$

$$T_f = 22.549^\circ\text{C}$$

If a piece of wood and a piece of metal of equal mass are laying on a table in the sun.

A) After a while, which one will be hotter?

metal

B) Why?

conductor - lower C_p

A 250 g iron bolt at 70°C is dropped into an 100g aluminum calorimeter of containing 200 g of water.

If the water and calorimeter are at room temperature (22°C) to begin with, find the final temperature when they come to thermal equilibrium? * see below

$$m_{\text{iron}} = .25 \text{ kg}$$

$$m_{\text{water}} = .2 \text{ kg}$$

$$m_{\text{cal}} = .1 \text{ kg}$$

$$-Q_{\text{hot}} = Q_{\text{cold water}} + Q_{\text{cold calorimeter}}$$

$$-m c \Delta T = m_{\text{H}_2\text{O}} c \Delta T + m c \Delta T$$

$$-.25(448)(T_f - 70) = .2(4184)(T_f - 22) + .1(899)(T_f - 22)$$

$$= (T_f - 22)(837.2 + 89.9)$$

$$-112(T_f - 70) = (T_f - 22)927.1$$

$$-112T_f + 7840 = 927.1T_f - 20396$$

$$2.8 \times 10^4 = 1039T_f$$

$$26.9^\circ\text{C} = T_f$$

* - we put a negative on the left side because it is already negative (it is losing Q).

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Horace, Quintus Horatius Flaccus

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Advanced Environmental Exercise Physiology Stephen S. Cheung, Philip N. Ainslie, 2022 Short factual description of the book summary of what it includes without subjective or promotional language This book for upper undergraduate and graduate students and professionals in the field is used to provide an overview of how the environment impacts exercise

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