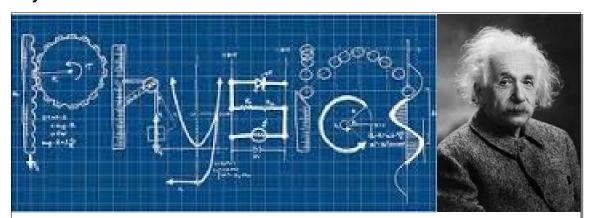
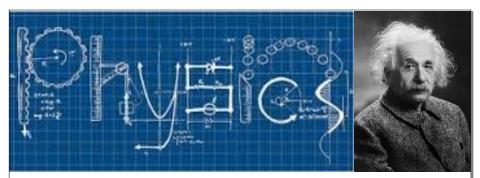
2.9 Efficiency.notebook



2.9 Efficiency

% efficiency =
$$\frac{W_{output}}{W_{input}}$$
 x 100%

Work = \triangle Energy



Ex.) A crane lifts an object with 4.5×10^5 J and the work done on the object is 3.8×10^4 J. What is the efficiency of the crane?

% efficiency =
$$\frac{\text{Woutput}}{\text{Winput}} \times 100\%$$

= $\frac{3.8 \times 10^4}{4.5 \times 10^5} \times 100$
= 8.4% efficient