
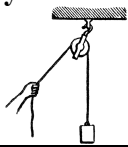
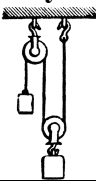
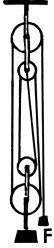
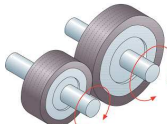
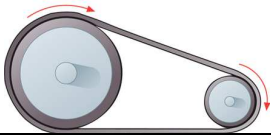
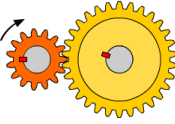
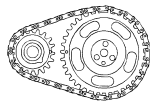
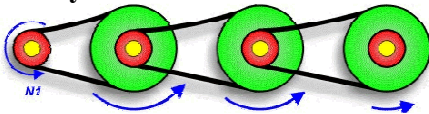

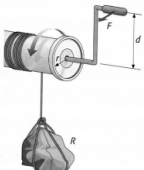


Mechanisms to transmit motion (Linear to Linear)	Levers 	$F \cdot d = R \cdot r$
	Fixed Pulleys 	$F = R$
	Moveable Pulleys 	$F = \frac{R}{2}$
	Compound Pulleys 	$F = \frac{R}{2 \cdot n}$ <p>where n is the number of moveable pulleys</p>
Mechanisms to transmit motion (Rotary to Rotary)	Friction Drive 	$n_1 \cdot D_1 = n_2 \cdot D_2$
	Pulleys with belts 	D_1, D_2 : Diameter of wheels 1 & 2. n_1, n_2 : Velocity of the wheels
	Gears 	$n_1 \cdot Z_1 = n_2 \cdot Z_2$
	Gears with a chain 	Z_1, Z_2 : Number of teeth of wheels 1 & 2. n_1, n_2 : Velocity of the gears
Mechanisms to convert motion (Rotary to Linear)	Pulleys train 	$n_1 \cdot D_1 = n_2 \cdot D_2$ When two wheels are on the same axle: $n_2 = n_3$
	Gears train 	$n_1 \cdot Z_1 = n_2 \cdot Z_2$ When two gears are on the same axle: $n_2 = n_3$
Mechanisms to convert motion (Rotary to Linear)	Winch 	$F \cdot d = R \cdot r$