

Speed changes in motion transmission systems

Complete this Concept Review so you can keep a record of what you have learned.

Definition

- A speed change occurs in a motion transmission system when _____

- Torque _____

- Engine torque _____

- Resisting torque _____

Rotational speed changes caused by strength differences between engine torque and resisting torque

Comparison of torque strength	Effect on speed of components
Engine torque = resisting torque	
Engine torque > resisting torque	
Engine torque < resisting torque	

Calculation of speed ratio in a motion transmission system



Speed changes in worm and worm gear systems

On a gear, the greater the number of teeth, _____

Speed changes in other motion transmission systems

Speed change	Friction gear systems Belt and pulley systems	Gear trains Chain and sprocket systems
	Motion is transmitted _____ _____ _____ _____ _____ _____ _____	Motion is transmitted _____ _____ _____ _____ _____ _____ _____
	Motion is transmitted _____ _____ _____ _____ _____ _____ _____	Motion is transmitted _____ _____ _____ _____ _____ _____ _____
	Motion is transmitted _____ _____ _____ _____ _____ _____ _____	Motion is transmitted _____ _____ _____ _____ _____ _____ _____