

Student Name: \_\_\_\_\_

Unit No. **11****Part I.** Place the letter of the key term next to the correct definition.

Term	Definition
	One of a number of modern tank-tread double-wheels used as an Idler/Tension Wheel.
	The measurement of frequency at which Inventor Studio produces unique, consecutive images.
	Component that transmits no power but guides or tensions a track, belt, or rope.
	The process of producing an image or animation based on user-defined parameters such as fps, lighting style, and scene style.
	Individual links combined together to form a continuous section. On the robot, this distributes the vehicle's weight more evenly, enabling the robot to maneuver in loose sand, or on spongy surfaces that would otherwise cause the robot to sink.
	A drivetrain which utilizes a continuous track as a drive member; this track is driven by one or more drive sprockets.
	Specifies the duration in seconds for each of the actions that comprises an animation. Plays the actions in an animation in sequence, or plays actions specified in this. When opened, activates the last animation.
	A series of connected treads, drive sprocket(s), idler(s)/tension wheels(s), and sometimes support rollers and suspension components when necessary.
	One of a series of connected components that make up a track.

**A.** Track    **B.** Bogey Wheel    **C.** Render    **D.** Tank Tread Drive    **E.** Tread  
**F.** Idler (Tension Wheel)    **G.** Timeline    **H.** Tank Tread    **I.** Frames Per Second

**Part II.** Fill in the blanks.

A tank tread drive is a \_\_\_\_\_ that uses a continuous track as a drive member; this track is driven by one or more drive \_\_\_\_\_

Sometimes people incorrectly refer to \_\_\_\_\_ as treads. The treads are actually components that link together to create this.

Wheeled vehicles have a \_\_\_\_\_ contact patch with the ground, whereas tank tread drive vehicles have a \_\_\_\_\_ contact patch.

Adding a \_\_\_\_\_ wheel assembly turns the front of the vehicle into a ramp, making it a better climber. An additional \_\_\_\_\_ wheel assembly creates a

ramp on the back of the vehicle as well. This enables the machine to go over large obstacles either forward or backward. This is called a \_\_\_\_\_ ramp configuration, and is commonly found on military and construction vehicles.

**Part III.** Place the letter of the Inventor technical term next to the correct definition.

Term	Description
	Controls the visibility of a component during a given time frame. An action is required to change from one visibility state to another. A second action is required to return to the previous visibility state.
	Sets the current time to zero, which is the start of the animation.
	Plays the animation. Changes to Stop Animation during playback.
	Specifies general settings for rendering animations.

**A.** Play Animation    **B.** Go to Start    **C.** Render Animation    **D.** Animate Fade