

Name \_\_\_\_\_

**SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.**

1) What is meant by the term telematics?

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2) Night vision is used to detect what type of objects?

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3) How does a navigation system determine the location of the vehicle?

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4) How does a stepper motor analog dash gauge work?

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5) What do the colors of the dash symbols mean?

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## Answer Key

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- 1) Telematics is an interconnected system that combines telecommunications (cellular systems) and GPS navigation satellite system technology. Telematics is a method of monitoring a vehicle by combining a GPS system with on-board diagnostic systems.  
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- 2) The camera creates pictures based on the heat energy emitted by objects, rather than from light reflected on an object, as in a normal optical camera. The night vision camera uses a special thermal imaging or infrared technology. The camera is mounted behind the grille in the front of the vehicle.  
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- 3) A navigation system uses satellites in orbit around the earth to provide signals for navigation devices.  
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- 4) The needle of the analog display is moved using a stepper motor, which is controlled by the electronics in the instrument panel.  
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- 5) Green and blue symbols are used to inform the driver what is in operation. Amber warning symbols inform the driver of a potential concern. Red dash symbols are used to warn the driver of a fault requiring immediate action.  
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