

Name \_\_\_\_\_

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

1) What is the meaning of the friction code letter printed on the edge of brake linings and pads?

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2) What is inertia?

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3) Why is copper being removed from brake friction material?

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4) What is kinetic energy?

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5) What is the coefficient of friction?

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## Answer Key

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- 1) After January 1, 2014, all brake shoes and pads were required to have manufacturer's edge codes, which indicate all of the following:
- Company code
  - Pad number
  - Formulation code
  - Vendor number
  - Friction code
  - Week number that the brakes were made
  - Environmental code (A, B, or N)
  - Year of manufacture

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- 2) Inertia is defined by Isaac Newton's first law of motion, which states that a body at rest tends to remain at rest, and a body in motion tends to remain in motion in a straight line unless acted upon by an outside force.

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- 3) Copper is a pollutant because:

- It is toxic to certain sensitive species of algae (phytoplankton) that form the base of the aquatic food chain.
- Copper also directly damages the sensory capabilities of salmon, making it difficult for them to avoid predators or find their way back to their spawning grounds.

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- 4) Kinetic energy is the energy of a mass in motion.

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- 5) The coefficient of friction is the measurement of the amount of friction between two surfaces. The higher the number from zero to one, the greater the friction.

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