

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?

2) What is inertia?

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

4) What is kinetic energy?

5) What is the coefficient of friction?

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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