

Name _____

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

1) What does Hooke's Law state?

2) What is the purpose and function of bump stops?

3) What are the types of suspensions and their component parts?

4) What is the difference between a load-carrying and a follower (friction) ball joint?

5) What is the purpose and function of a stabilizer bar?

Answer Key

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- 1) Hooke's Law states that the deflection of a spring is directly proportional to the applied force.
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- 2) If a bump in the road is large enough, the suspension is compressed to its mechanical limit. Instead of allowing the metal components of the suspension to hit the frame or body of the vehicle, a rubber or foam bumper is used to absorb and isolate the suspension from the frame or body.
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- 3) Types of suspensions include coil spring, torsion bar, and leaf spring types. Most types use control arms or links to provide longitudinal (front-to-back) and transverse (side-to-side) support.
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- 4) A load-carrying ball-joint supports the weight of the vehicle, whereas a friction (follower) ball-joint acts as a pivot point for the suspension.
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- 5) A stabilizer bar is used to limit body roll during cornering.
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