

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

## Novice Engineer Assessment **Answer Key**

1. What types of materials do you think will cushion an egg so it doesn't crack?

*Complete answer: Materials like cotton balls, elastic fabric, rubber bands.*

2. What types of energy are involved in the dropping of an egg during the fall?

*Complete answer: As the egg falls, its energy transfers from gravitational potential energy to kinetic energy.*

3. How high do you think you can drop an egg onto a hard surface and keep it from breaking? Why? Where does the egg's kinetic energy go?

*Complete answer: Look for good reasoning re the height question, explaining why. When the egg hits the ground, kinetic energy transfers to heat energy, sound energy and/or the kinetic energy is absorbed by the hard surface material and by the egg (shell breaks).*