

NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

STUDENT #: \_\_\_\_\_ TEACHER: \_\_\_\_\_

## Helmet Tests – Section 2 – **MASTER**

Helmet Tested: **BLACK**

**Part A**

Position	Pumpkin Energy (no helmet)
<b>A</b>	<b>1</b>
<b>B</b>	<b>3</b>
<b>C</b>	<b>7</b>
<b>D</b>	<b>13</b>
<b>E</b>	<b><u>20</u></b>







**Part B**

Position	Pumpkin Energy (with your helmet)
<b>A</b>	<b>0</b>
<b>B</b>	<b>1</b>
<b>C</b>	<b>5</b>
<b>D</b>	<b>11</b>
<b>E</b>	<b><u>18</u></b>

**Part C:** Determine the max amount of energy absorbed by your helmet type (Use Position E). Record the energy absorbed by other groups during the class discussion of results.

**Pumpkin, No Helmet – Pumpkin, with Helmet = Energy Absorbed by Helmet**  
**(20 – 18 = 2)**

### Max Energy Absorbed (Joules) by Each Helmet Type

	<b>Red</b>	<b>10</b>		<b>Pink</b>	<b>14</b>
	<b>Black</b>	<b><u>2</u></b>		<b>Eagle</b>	<b>12</b>
	<b>Blue</b>	<b>8</b>		<b>Green</b>	<b>4</b>

NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

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## Helmet Tests – Section 2 – **MASTER**

Helmet Tested: **BLUE**

**Part A**

Position	Pumpkin Energy (no helmet)
<b>A</b>	<b>1</b>
<b>B</b>	<b>3</b>
<b>C</b>	<b>7</b>
<b>D</b>	<b>13</b>
<b>E</b>	<b>20</b>







**Part B**

Position	Pumpkin Energy (with your helmet)
<b>A</b>	<b>0</b>
<b>B</b>	<b>0</b>
<b>C</b>	<b>0</b>
<b>D</b>	<b>4</b>
<b>E</b>	<b>12</b>

**Part C:** Determine the max amount of energy absorbed by your helmet type (Use Position E). Record the energy absorbed by other groups during the class discussion of results.

**Pumpkin, No Helmet – Pumpkin, with Helmet = Energy Absorbed by Helmet**  
**(20 – 12 = 8)**

### Max Energy Absorbed (Joules) by Each Helmet Type

	<b>Red</b>	<b>10</b>		<b>Pink</b>	<b>14</b>
	<b>Black</b>	<b>2</b>		<b>Eagle</b>	<b>12</b>
	<b>Blue</b>	<b>8</b>		<b>Green</b>	<b>4</b>

NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

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## Helmet Tests – Section 2 – **MASTER**

Helmet Tested: **HALO**

**Part A**

Position	Pumpkin Energy (no helmet)
<b>A</b>	<b>1</b>
<b>B</b>	<b>3</b>
<b>C</b>	<b>7</b>
<b>D</b>	<b>13</b>
<b>E</b>	<b>20</b>







**Part B**

Position	Pumpkin Energy (with your helmet)
<b>A</b>	<b>0</b>
<b>B</b>	<b>0</b>
<b>C</b>	<b>0</b>
<b>D</b>	<b>1</b>
<b>E</b>	<b>8</b>

**Part C:** Determine the max amount of energy absorbed by your helmet type (Use Position E). Record the energy absorbed by other groups during the class discussion of results.

**Pumpkin, No Helmet – Pumpkin, with Helmet = Energy Absorbed by Helmet**

$$(20 - 8 = 12)$$

Max Energy Absorbed (Joules) by Each Helmet Type					
	Red	10		Pink	14
	Black	2		Eagle	12
	Blue	8		Green	4

NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

STUDENT #: \_\_\_\_\_ TEACHER: \_\_\_\_\_

## Helmet Tests – Section 2 – **MASTER**

Helmet Tested: **GREEN**

**Part A**

Position	Pumpkin Energy (no helmet)
<b>A</b>	<b>1</b>
<b>B</b>	<b>3</b>
<b>C</b>	<b>7</b>
<b>D</b>	<b>13</b>
<b>E</b>	<b>20</b>







**Part B**

Position	Pumpkin Energy (with your helmet)
<b>A</b>	<b>0</b>
<b>B</b>	<b>0</b>
<b>C</b>	<b>4</b>
<b>D</b>	<b>9</b>
<b>E</b>	<b>16</b>

**Part C:** Determine the max amount of energy absorbed by your helmet type (Use Position E). Record the energy absorbed by other groups during the class discussion of results.

Pumpkin, No Helmet – Pumpkin, with Helmet = Energy Absorbed by Helmet  
(20 – 16 = 4)

### Max Energy Absorbed (Joules) by Each Helmet Type

	<b>Red</b>	<b>10</b>		<b>Pink</b>	<b>14</b>
	<b>Black</b>	<b>2</b>		<b>Eagle</b>	<b>12</b>
	<b>Blue</b>	<b>8</b>		<b>Green</b>	<b>4</b>

NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

STUDENT #: \_\_\_\_\_ TEACHER: \_\_\_\_\_

## Helmet Tests – Section 2 – **MASTER**

**Helmet Tested: PINK**

**Part A**

Position	Pumpkin Energy (no helmet)
<b>A</b>	<b>1</b>
<b>B</b>	<b>3</b>
<b>C</b>	<b>7</b>
<b>D</b>	<b>13</b>
<b>E</b>	<b>20</b>







**Part B**

Position	Pumpkin Energy (with your helmet)
<b>A</b>	<b>0</b>
<b>B</b>	<b>0</b>
<b>C</b>	<b>0</b>
<b>D</b>	<b>0</b>
<b>E</b>	<b>6</b>

**Part C:** Determine the max amount of energy absorbed by your helmet type (Use Position E). Record the energy absorbed by other groups during the class discussion of results.

**Pumpkin, No Helmet – Pumpkin, with Helmet = Energy Absorbed by Helmet**  
 $(20 - 6 = 14)$

### Max Energy Absorbed (Joules) by Each Helmet Type

	<b>Red</b>	<b>10</b>		<b>Pink</b>	<b>14</b>
	<b>Black</b>	<b>2</b>		<b>Eagle</b>	<b>12</b>
	<b>Blue</b>	<b>8</b>		<b>Green</b>	<b>4</b>

NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

STUDENT #: \_\_\_\_\_ TEACHER: \_\_\_\_\_

## Helmet Tests – Section 2 – **MASTER**

Helmet Tested: **RED**

**Part A**

Position	Pumpkin Energy (no helmet)
<b>A</b>	<b>1</b>
<b>B</b>	<b>3</b>
<b>C</b>	<b>7</b>
<b>D</b>	<b>13</b>
<b>E</b>	<b>20</b>







**Part B**

Position	Pumpkin Energy (with your helmet)
<b>A</b>	<b>0</b>
<b>B</b>	<b>0</b>
<b>C</b>	<b>0</b>
<b>D</b>	<b>3</b>
<b>E</b>	<b>10</b>

**Part C:** Determine the max amount of energy absorbed by your helmet type (Use Position E). Record the energy absorbed by other groups during the class discussion of results.

**Pumpkin, No Helmet – Pumpkin, with Helmet = Energy Absorbed by Helmet**  
**(20 – 10 = 10)**

### Max Energy Absorbed (Joules) by Each Helmet Type

	<b>Red</b>	<b>10</b>		<b>Pink</b>	<b>14</b>
	<b>Black</b>	<b>2</b>		<b>Eagle</b>	<b>12</b>
	<b>Blue</b>	<b>8</b>		<b>Green</b>	<b>4</b>