**Team Number: \_\_\_**

**Team Members: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

*Each team member selects a DIFFERENT type of energy transformation that they identify from the OkGo “This too Shall Pass” rube goldberg music video. Then, each team member will do an Energy Audit for their transformation. An example Energy Audit is provided on page 2 of this document.*

**List of Energy Transformations and time-frames in given time-frame:**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Type of energy @** | **Type of energy @** | **Timeframe** |
| **Team Member:**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | **Point A:** | **Point B:** | **From \_\_\_:\_\_\_ to \_\_\_:\_\_** |
| **Team Member:**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | **Point A:** | **Point B:** | **From \_\_\_:\_\_\_ to \_\_\_:\_\_** |
| **Team Member:**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | **Point A:** | **Point B:** | **From \_\_\_:\_\_\_ to \_\_\_:\_\_** |

[**For Reference Videos (including the full Music Video as well as “how it was made” videos) Please click here!**](https://drive.google.com/open?id=13rljge45TOWKlmVRELYP61gdaPAC7l7f)

**Transformation EXAMPLE**

**Description of Point A:**

|  |
| --- |
| ***A toy car is moving at a very high speed towards a spring*** |

**Description of Point B:**

|  |
| --- |
| ***The toy car is sitting still and has compressed the spring.*** |

**Description of Transformation:**

|  |
| --- |
| ***The toy car is slowed down as it applies a force to compress the spring some distance “x”.*** |

**Sketch of Transformation:**

|  |
| --- |
|  |



**Conservation of Energy Equation:**

|  |
| --- |
| **EK = Us**  **½ mv2 = ½ kx2** |

**Transformation # 1**

**Description of Point A:**

|  |
| --- |
|  |

**Description of Point B:**

|  |
| --- |
|  |

**Description of Transformation:**

|  |
| --- |
|  |

**Sketch of Transformation:**

|  |
| --- |
|  |



**Conservation of Energy Equation:**

|  |
| --- |
|  |

**Transformation # 2**

**Description of Point A:**

|  |
| --- |
|  |

**Description of Point B:**

|  |
| --- |
|  |

**Description of Transformation:**

|  |
| --- |
|  |

**Sketch of Transformation:**

|  |
| --- |
|  |



**Conservation of Energy Equation:**

|  |
| --- |
|  |

**Transformation # 3**

**Description of Point A:**

|  |
| --- |
|  |

**Description of Point B:**

|  |
| --- |
|  |

**Description of Transformation:**

|  |
| --- |
|  |

**Sketch of Transformation:**

|  |
| --- |
|  |



**Conservation of Energy Equation:**

|  |
| --- |
|  |