**Roller Coaster Summative Assessment Rubric**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **4** | **3** | **2** | **1** | **0** |
| **Explain the difference between potential energy and kinetic energy** | Accurately describes potential energy *and* accurately describes kinetic energy; gives examples of each. | Accurately describes potential energy and accurately describes kinetic energy. | Accurately describes *only* potential energy or kinetic energy. | Inaccurately describes both. | No response. |
| **Describe the energy conversion that takes place on a roller coaster** | Exceptionally accurate description of energy conversion*s* on a roller coaster. | Accurate description of energy conversion*s* on a roller coaster. | Accurately describes at least one energy conversion on a roller coaster. | Inaccurately describes energy conversions on a roller coaster. | No response. |
| **Describe how the law of conservation of energy affects your roller coaster.** | Accurately explains the law of conservation of energy *and* accurately describes how the law of conservation of energy affects your roller coaster. | Accurately describes how the law of conservation of energy affects your roller coaster. | Accurately describes how the law of conservation of energy affects your roller coaster *or* explains the law of conservation of energy. | Inaccurately describes how the law of conservation of energy affects your roller coaster. | No response. |

**Roller Coaster Summative Assessment Rubric**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **4** | **3** | **2** | **1** | **0** |
| **Explain the difference between potential energy and kinetic energy** | Accurately describes potential energy *and* accurately describes kinetic energy; gives examples of each. | Accurately describes potential energy and accurately describes kinetic energy. | Accurately describes *only* potential energy or kinetic energy. | Inaccurately describes both. | No response. |
| **Describe the energy conversion that takes place on a roller coaster** | Exceptionally accurate description of energy conversion*s* on a roller coaster. | Accurate description of energy conversion*s* on a roller coaster. | Accurately describes at least one energy conversion on a roller coaster. | Inaccurately describes energy conversions on a roller coaster. | No response. |
| **Describe how the law of conservation of energy affects your roller coaster.** | Accurately explains the law of conservation of energy *and* accurately describes how the law of conservation of energy affects your roller coaster. | Accurately describes how the law of conservation of energy affects your roller coaster. | Accurately describes how the law of conservation of energy affects your roller coaster *or* explains the law of conservation of energy. | Inaccurately describes how the law of conservation of energy affects your roller coaster. | No response. |