Name Period Date

It’s the Law: Physical Change

STARTER: What would you expect to happen to the mass of an object if you make a physical change to it? Explain your answer.

**Instructions:**

Before the class period is over today, you must be able to prove beyond a shadow of a doubt that the Law of Conservation of Mass is true for physical changes. A variety of materials are at your disposal to use.

**Grading Rubric:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Criteria | 3 | 2 | 1 | 0 |
| Organization | A neat and tidy table is used to organize the data collected and has all the elements of a good table | A table is used to organize the data collected and has most of the elements of a good table | It kind of looks like a table  | No table is used |
| Procedures | Procedures are detailed so that someone could repeat what you did and are in a numbered list | Procedures are mostly detailed but the reader would need to ask a question or two  | Procedures are somewhat detailed but the reader would need to ask a lot of questions | Procedures are not present |
| Data | The data has been replicated and verified (replicated – same measurement done several times; verified – different materials are used to come to the same conclusion) | Most of the data has been replicated and verified | Some of the data has been replicated and verified ORAll of the data has been either replicated or verified but not both | The data has not been replicated or verified |
| Conclusion | Conclusion is backed up by a large amount of data and the writer provides a convincing argument | Conclusion is backed up by a moderate amount of data  | Conclusion is backed up by a small amount of data | Conclusion is not backed up by data |