Name: DUE DATE – TEST DATE:

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| --- | --- | --- | --- | --- | --- |
| **Applied Physics**  15 Energy | | | | | evidence and practice  ASSIGNMENT NUMBERS FROM PORTFOLIO EVIDENCE & PRACTICE LOG |
| Status of Standard | | | | |
| Vocabulary is in bold! | | **Not Yet**  *I have no idea what to do.* | **Proficient**  *I can do it with some help and few mistakes.* | **Advanced**  *I can do it correctly and with confidence.* |
| I can… | |
| 1 | Determine the relationship between **energy** and **work.** |  |  |  |  |
| 2 | List the factors that **kinetic energy** of an object depends on. |  |  |  |  |
| 3 | Tell how **gravitational potential energy** is determined. |  |  |  |  |
| 4 | List the major forms of **energy**. |  |  |  |  |
| 5 | Define **Elastic Potential Energy** |  |  |  |  |
| 6 | Define **Mechanical Energy** |  |  |  |  |
| 7 | Define **Thermal Energy** |  |  |  |  |
| 8 | Define **Chemical Energy** |  |  |  |  |
| 9 | Define **Electrical Energy** |  |  |  |  |
| 10 | Define **Electromagnetic Energy** |  |  |  |  |
| 11 | Define **Nuclear Energy** |  |  |  |  |
| 12 | Determine if energy can be converted from one form into another. |  |  |  |  |
| 13 | Explain the law of conservation of energy. |  |  |  |  |
| 14 | Determine what **energy conversion** takes place as an object falls towards Earth. |  |  |  |  |
| 15 | Determine the relationship between energy and mass. |  |  |  |  |
| 16 | Determine the major nonrenewable and renewable sources. |  |  |  |  |
| 17 | Explain how energy resources can be conserved |  |  |  |  |
| 18 | Define **Nonrenewable Energy Resources** |  |  |  |  |
| 19 | Define **Fossil Fuels** |  |  |  |  |
| 20 | Define **Renewable Energy Resources** |  |  |  |  |
| 21 | Define **Hydroelectric Energy** |  |  |  |  |
| 22 | Define **Solar Energy** |  |  |  |  |
| 23 | Define **Geothermal Energy** |  |  |  |  |
| 24 | Define **Biomass Energy** |  |  |  |  |
| 25 | Define a **Hydrogen Fuel Cell** |  |  |  |  |
| 26 | Define **Energy Conservation** |  |  |  |  |
|  |  |  |  |  |  |
|  | **END GOAL** |  |  |  |  |
| 27 | Use all the concepts in this unit to describe, analyze, and persist in solving problems |  |  |  |  |