Name: DUE DATE – TEST DATE:

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| **Applied Physics**  26 Exploring the Universe | | | | | 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 how the sun produces energy**.** |  |  |  |  |
| 2 | Determine what keeps the sun stable over time**.** |  |  |  |  |
| 3 | Identify the structures of the sun**.** |  |  |  |  |
| 4 | Describe the features of the sun’s atmosphere. |  |  |  |  |
| 5 | Define **core** |  |  |  |  |
| 6 | Define a **radiation zone** |  |  |  |  |
| 7 | Define a **convection zone** |  |  |  |  |
| 8 | Define the **photosphere** |  |  |  |  |
| 9 | Define the **chromosphere** |  |  |  |  |
| 10 | Define the **corona** |  |  |  |  |
| 11 | Define **solar wind** |  |  |  |  |
| 12 | Define **sun spots** |  |  |  |  |
| 13 | Define **prominences** |  |  |  |  |
| 14 | Define **solar flare** |  |  |  |  |
| 15 | Determine how the distance between stars can be measured. |  |  |  |  |
| 16 | Describe how astronomers categorize stars. |  |  |  |  |
| 17 | Identify what elements are found in stars. |  |  |  |  |
| 18 | Describe how astronomers use the **H-R diagram**. |  |  |  |  |
| 19 | Define **star** |  |  |  |  |
| 20 | Define **light-year** |  |  |  |  |
| 21 | Define **parallax** |  |  |  |  |
| 22 | Define **apparent brightness** |  |  |  |  |
| 23 | Define **absorption lines** |  |  |  |  |
| 24 | Define **main sequence** |  |  |  |  |
| 25 | Define **supergiants** |  |  |  |  |
| 26 | Define **giants** |  |  |  |  |
| 27 | Define **white dwarfs** |  |  |  |  |
| 28 | Determine how stars form. |  |  |  |  |
| 29 | Describe how long a star remains on the main sequence. |  |  |  |  |
| 30 | Identify what happens to a star when it runs out of fuel. |  |  |  |  |
| 31 | Define **nebula** |  |  |  |  |
| 32 | Define **protostar** |  |  |  |  |
| 33 | Define **planetary nebula** |  |  |  |  |
| 34 | Define **supernova** |  |  |  |  |
| 35 | Define **neutron star** |  |  |  |  |
| 36 | Define **pulsar** |  |  |  |  |
| 37 | Define **black hole** |  |  |  |  |
| 38 | Determine how stars are distributed in space. |  |  |  |  |
| 39 | Identify the characteristics of each type of star cluster. |  |  |  |  |
| 40 | Identify the types of galaxies. |  |  |  |  |
| 41 | Define **constellation** |  |  |  |  |
| 42 | Define **star system** |  |  |  |  |
| 43 | Define **binary star** |  |  |  |  |
| 44 | Define **globular cluster** |  |  |  |  |
| 45 | Define **galaxy** |  |  |  |  |
| 46 | Define **spiral galaxies** |  |  |  |  |
| 47 | Define **barred-spirral galaxies** |  |  |  |  |
| 48 | Define **elliptical** |  |  |  |  |
| 49 | Define **Irregular** |  |  |  |  |
| 50 | Define **quasars** |  |  |  |  |
| 51 | Determine how the universe is expanding. |  |  |  |  |
| 52 | Identify what is the **big bang theory** and what evidence supports it. |  |  |  |  |
| 53 | Describe how **dark matter** can be detected. |  |  |  |  |
| 54 | Define **red shift** |  |  |  |  |
| 55 | Define **Hubble’s Law** |  |  |  |  |
|  |  |  |  |  |  |
|  | **END GOAL** |  |  |  |  |
| 56 | Use all the concepts in this unit to describe, analyze, and persist in solving problems |  |  |  |  |