Physics Test Lab

These requirements are researched and discussed with the counselor.
Complete these requirements with written responses before MBU
See Physics Test Lab for additional information.

1. **Safety**. Before conducting any experiments, explain to your counselor the safety precautions and personal protective equipment necessary for working with physics-related equipment.

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2. **What is Physics?** Define physics in your own words and discuss with your counselor various areas of physics.

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3. **Fundamentals of Physics.** Explain these key physics concepts: force, motion, energy, and waves. Provide real-world examples demonstrating each principle.

Physics Test Lab

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5. **Physics All Around You**. Discuss with your counselor: (a) **Physics in Everyday Life**. Describe FIVE ways physics is applied in daily life, such as in transportation, sports, or household appliances. (b) **Physics in Space Exploration**. Describe how physics is used in space travel, satellite technology, or planetary exploration. (c) **Physics in the Environment**. Explain how physics contributes to renewable energy, climate science, or environmental conservation. (d) **Physics in Scouting**. Explain how physics is found in Scouting, such as knot tying, fire building, cooking, or pioneering.

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5. **Physics All Around You**. (Continued)

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6. **The Future of Physics**. Physicists try to explain the universe and apply these concepts to novel technologies. Discuss one option with your counselor:

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8. Careers Do ONE of the following (a) or (b):

Complete the form electronically or hand-written. Bring a completed paper copy to MBU.