

# Force and Motion

## Assignment #6 More Machine Power

NAME: \_\_\_\_\_

Due Date: \_\_\_\_\_

Instructions: Read the information handout titled "More Machine Power" and "Gravity" and answer the questions in the spaces provided.

1. What is the Newton law that explains how a rocket propels forewords? (Do not give the law #, you must explain the law)

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2. What type of fuel does a jet engine burn?

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3. What is Newton's first law of motion?

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4. What is a perpetual motion machine?

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5. How does Newton's first law help explain why a perpetual motion machine can never work?

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6. Why can't a jet engine work in outer space?

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7. How do spacecrafts overcome this obstacle?

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8. Explain what streamline is.

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9. What is drag?

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10. What velocity, *in km/h*, does a rocket reach to enter space and go into orbit?

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- Not complete by due date
- Answers lacked effort and knowledge
- Shows little ability to apply the concepts of the laws of motion
- Redo/complete questions #'s

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- Completed with accuracy
- More explanation needed for some questions
- Shows reasonable ability to apply the concepts of the laws of motion
- Correct/improve questions #'s

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- Completed with detail
- Excellent explanations given
- Shows excellent ability to apply the concepts of the laws of motion
- Improve questions #'s

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