Movement and Transportation Assessment

Student Name: _____	**Class:** _____
Student ID: _____	**Date:** {{DATE}}

Assessment Details

Duration: 2 hours	**Total Marks:** 100
Topics Covered:	• Movement and Transportation • Inventors and Innovations • Simple Machines • Energy and Efficiency

Instructions to Students:

1. Read all questions carefully before attempting.
2. Show all working out - marks are awarded for method.
3. Calculator use is permitted except where stated otherwise.
4. Write your answers in the spaces provided.
5. If you need more space, use the additional pages at the end.
6. Time management is crucial - allocate approximately 1 minute per mark.

Section A: Multiple Choice Questions [20 marks]

Question 1 **[2 marks]**

What is the primary function of a wheel in a machine?

A) To provide support

B) To reduce friction

C) To increase speed

D) To change direction

Question 2 **[2 marks]**

Which of the following inventors is credited with the development of the steam engine?

A) Leonardo da Vinci

B) James Watt

C) Thomas Edison

D) Alexander Graham Bell

Question 3 **[2 marks]**

What is the term for the study of the relationship between a machine's parts and its movement?

A) Kinematics

B) Dynamics

C) Mechanics

D) Thermodynamics

Section B: Short Answer Questions [40 marks]

Question 4 **[8 marks]**

Describe the basic mechanism of a lever.

Question 5 **[8 marks]**

Explain how the invention of the wheelbarrow impacted society.

Question 6 **[8 marks]**

Discuss the importance of friction in the design of machines.

Section C: Essay Questions [40 marks]

Question 7 **[20 marks]**

Describe the impact of the industrial revolution on transportation.

Question 8 **[20 marks]**

Discuss the role of inventors in shaping the modern world.

Section D: Project-Based Question [20 marks]

Question 9 **[20 marks]**

Design and build a simple machine that demonstrates the concept of movement and transportation. Be sure to include a brief explanation of how your machine works.

Section E: Timeline Activity [10 marks]

Question 10 **[10 marks]**

Create a timeline of major inventions in the field of transportation. Be sure to include at least 5 inventions and a brief description of each.

Conclusion

Thank you for completing the Movement and Transportation assessment! Remember to review your answers and ask your teacher if you have any questions or need further clarification.