

## Exercise 1: Kinematics – Acceleration in a Spring-Mass System

Objective: To determine the acceleration of a mass-spring system in simple harmonic motion.

The acceleration of a mass-spring system in simple harmonic motion is given by the equation  $a = -\omega^2 x$ , where  $a$  is the acceleration,  $\omega$  is the angular frequency, and  $x$  is the displacement from the equilibrium position. The angular frequency  $\omega$  is related to the period  $T$  of the motion by the equation  $\omega = 2\pi/T$ .

1.1. Equipment and Materials:

1. Spring	Mass of spring (kg)	Spring constant (N/m)
2. Masses (kg)		
3. Ruler		
4. Stopwatch		
5. Stand		

1.2. Procedure:

a. Measure the mass of the spring.

b. Measure the period of oscillation for different masses.

1.3. Data Collection:

Mass (kg)      Period (s)      Spring constant (N/m)

1.4. Analysis:

1.5. Results:

1.6. Discussion:

1.7. Conclusion:

1.8. References:

1.9. Appendix:

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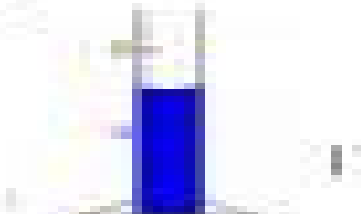
1.11. Questions:

1.12. Answers:

1.13. Summary:

1.14. Conclusion:

1.15. References:



# High School Honors Chemistry Study Guide

**S Ben Porath**



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