

# PHYSICAL SCIENCES GRADE 10 NOTES

## Waves, Sound & Light

### **ACTIVITY: Pendulum Investigation**

#### **Rationale**

The study of the pendulum is not an explicit requirement in CAPS. However, this investigation has been designed to develop conceptual thinking about the relationship between terms like amplitude, period and frequency.

This investigation also provides the opportunity to revise the Scientific Method and make sure that Grade 10 learners have the basic skills required to complete practical assessment tasks.

#### **Instructions**

1. Work in groups of four.
2. This is a guided practical activity. You are required to stay on task and respond in the time allocated.

**Investigation:** A simple pendulum

**Part 1:** Demonstration of a pendulum

Watch the pendulum swinging

- a.) Describe the motion of a pendulum
- b.) What factors may affect the time taken for one swing?

#### **Solutions:**

- a.) Learners need to explain in their own words. Guide them to think about when the bob of the pendulum is at rest, maximum speed, slowing down and speeding up.  
From a position of maximum displacement from the rest position the bob has zero velocity. The bob accelerates as it moves towards the rest position (not constant acceleration). At the rest position, the bob is moving at max velocity. The velocity decreases as the bob moves towards the position of maximum displacement. The bob experiences a negative acceleration that is not constant.

# Exampler Of Physical Sciences Grade 10 2013

**de Silva, Eugene**



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