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• THE PRACTICAL APPROACH

The *WJIBus* is designed to foster the use of inquiry-based learning through the application of the practical approach. Students will be guided to answer scientific questions by a process of making observations, asking questions, doing experiments, and analysing and interpreting data. The CXC CSEC *Physics syllabus* focuses on the following skills.

1. Planning and Designing (PD)

Student's ability to:

(i) Ask questions (how, what, which, why or where). (Students must be guided by their teachers to ask scientific questions).

Example: How does the length of the simple pendulum affect its period of swing?

(ii) Construct a hypothesis. The hypothesis must be clear, concise and testable.

Example: There is direct correlation between the length of the pendulum and period of the swing.

(iii) Design an experiment to test the hypothesis. Experimental report must include the following:

(i) problem statement;

(ii) aim;

(iii) list of materials and apparatus to be used;

(iv) identification of variables;

(v) clear and concise step-by-step procedure;

(vi) display of expected results;

(vii) use of results;

(viii) possible sources of error/precautions;

(ix) possible limitations.

2. Measurement and Manipulation (MM)

(i) Student's ability to handle scientific equipment competently.

The list of equipment is:

(i) Bunsen burner;

(ii) Vernier callipers;

(iii) measuring cylinder;

• CXC22/60/S/13

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