

Learner Task Guide

Class: Grade 9A

Teacher: Mrs B

Term: 2

Grade: 9

Subject: Natural Sciences

Date: 20 June 2011

Topic: Electrical Circuits

What must I show that I KNOW and can DO?

I can:

1. Predict which light bulbs will light up in different electrical circuits
2. Infer comparable brightness of light bulbs in different positions in electrical circuits
3. Set up an electrical circuit
4. Compare inferences and predictions with observations and explain any differences in these

HOW will I do this?

Drawings of simple electrical circuits are presented and I must make predictions as to what effects will be observed in each case based on my existing knowledge and understanding. I will be given circuit boards and electrical components which I will use to build the actual circuits and compare what I predicted with what I observe. I will write a paragraph to explain any discrepancies in what I predicted and what I observe. Different electrical circuit misconceptions are presented by my teacher and I diagnose my own difficulties based on the discrepancies I discovered.

WHEN will I do this?

20 June 2011

How will my teacher MEASURE what I know and what I have done?

I have a rubric to measure:

1. Predicting which light bulbs will light up in different electrical circuits
2. Inferring comparable brightness of light bulbs in different positions in electrical circuits
3. Setting up an electrical circuit
4. Comparing inferences and predictions with observations and explaining any differences in these