

Science	Topic: Energy
Term 2 2018	Year 10

## Lesson Plan

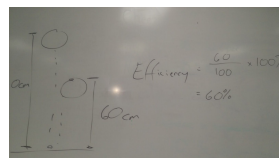
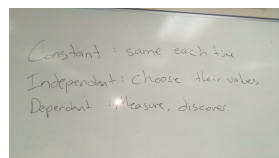
Week 9: Lesson 4 Friday ( 40 mins)

<b>Topic Details</b> Conservation of energy	<b>Previous lesson (prior knowledge)</b> In the last lesson we conducted the bouncing balls practical. I also went through how to identify/ distinguish independant, dependant, and constant variables.
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## Learning Intentions

Students will:

- Know how to determine what kind of graph is appropriate for a given set of variables.
- Know how to distinguish and identify variables.
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Time (mins)	Teacher Activity	Student Activity	Resources
5min	Taking the role.	Settling down.	
5min	Review the calculation of efficiency for those students still working on their prac reports	Sitting listening and participating.	Whiteboard 
5min	Review variables, use a few scenarios to get students to show understanding by identifying the variables: using heavier balls and measuring their efficiency, etc.	Sitting listening and participating.	Whiteboard. 

Senior Mathematics Curriculum and Methodology A

5min	Explain the difference between categorical and numeric variables. Talk about how to use this distinction to determine what kind of graph might be appropriate for a prac report (graphs typically have the independent variable(s) plotted horizontally and the dependant variable plotted vertically).	Sitting listening and participating.	Whiteboard
20min	Providing one-on-one support	Writing up prac reports, making graphs, etc.	None

**Evaluation/Assessment**

Checking for understanding by asking for student participation during whiteboard explanations, then during one-on-ones by asking leading questions and observing student work directly.