A rough estimate or calculated guess	Reach conclusion without knowing all details - ignoring possible irrelevancies (e.g. Friction in motion)	Use formulae, insert numerical values from a question, to solve a problem	To be in the same place at the same time
Approximation	**Assumption**	**Calculation**	**Coincides**
Problems which involve two or more steps	Physics Ideas	Kept the same	A question with a setting/with relevance to the question
Complex problems	**Concepts**	**Conserved**	**Context**
Prove something using first principles	A statement that represents something in words	A picture/image that provides information for the question	When two variables increase or decrease together in the same ratio (at the same rate)
Derive	**Description**	**Diagram**	**Direct proportion**
Fully explain including comparing and contrasting of physics idea	Consequence caused by external factors to particular variables	The capacity of a body to do work is called its energy	An educated guess (which may not involve a calculation)

Discuss	Effect	Energy	Estimate
Written sentence(s) to show the meaning of something	Physics equations with variables used to determine mathematical values	A proposed explanation of a phenomenon that is compatible with the data	The relationship in which the value of one variable increases while second variable decreases at the same rate
Explain	**Formulae**	**Hypothesis**	**Inverse proportion**
Metric unit used to measure work and energy	Give written reasons for something	The fundamental unit of mass in the metric system of measurement	Diagram with words/symbols to identify the parts of the diagram
Joule	**Justify**	**Kilogram**	**Labelled**
The distance that light travels through empty space in one year, approximately 9.5 x 10^{11} km	A metric system unit of volume, usually used for liquids	The size of a measurement	The fundamental metric unit of length
Light-year	**Liter**	**Magnitude**	**Meter**

A representation of something that cannot be observed directly that is usually used as an aid to understanding	A constant without units; a number	The only point on a graph where both the x and y variables have a value of zero at the same time	At right angles
Model	**Numerical constant**	**Origin**	**Perpendicular**
Something that happens but can't always be explained	Something that can be physically measured e.g. Mass, time	Fundamental Physics ideas	Steps leading to a particular result
Phenomena	**Physical quantity**	**Principles**	**Process**
Attributes	A constant applied to a proportionality statement that transforms the statement into an equation	Give information or calculations to explain the problem	Descriptive (not numerical)
Properties	**Proportionality constant**	**Provide**	**Qualitative**

Numerical	Unpredictably	How two (or more) variables are connected / related	Something that is important to the situation
Quantitative	**Randomly**	**Relationship**	**Relevant**
A physical quantity, which is described completely by its magnitude	A relationship between quantities, usually described by an equation in the physical sciences	A relationship between quantities concerned with a specific, or narrow range of observations and behavior	The standard unit of time in both the metric and English systems of measurement
Scalar Quantity	**Scientific law**	**Scientific principle**	**Second**
Give evidence for	How many numbers you use to write an answer (based on information given)	How big something is (Magnitude)	Draw roughly
Show	**Significant figures**	**Size**	**Sketch**

A short response	A problem that only requires one step to solve	Knowing (and being able to explain) how something works	What a quantity is measured in e.g. ms^{-1}
State	**Straightforward problems**	**Understanding**	**Units**
A back and forth motion that repeats itself	Metric unit for power; equivalent to joule/sec	Mathematical steps showing use of a formula to reach a final answer	
Vibration	**Watt**	**Workings**	