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| Unit:  | G481 Mechanics |
| Module: | 1 Motion |
| Lesson: | 1: Physical quantities and units |
| Links to specification: | * explain that some physical quantities consist of a numerical magnitude and a unit;
* use correctly the named units listed in this specification as appropriate;
* use correctly the following prefixes and their symbols to indicate decimal sub-multiples or multiples of units: pico (p), nano (n), micro (μ), milli (m), centi (c), kilo (k), mega (M), giga (G), tera (T);
* Make suitable estimates of physical quantities included within this specification.
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| Key questions: | What are SI units?Why are SI units used?What prefixes are used? |
| Key words: | SI Unit, Prefix |
| Starter: | Provide students with a list of things that can be measured. E.g. length. Get them to come up with as many units as possible. Discuss why we use different units of length etc. for different measurements. Discuss the need for the scientific community to use the same units |
| Main activities: | Give the student the basic SI units.Watch the Youtube video: [**http://uk.youtube.com/watch?v=8WThnNzPsvo&feature=related**](http://uk.youtube.com/watch?v=8WThnNzPsvo&feature=related)Cut and stick (or join up) activity on worksheetPupils to put different numbers in order (with use of prefixes) |
| Plenary: | Play your cards right – with prefixes ☺ |
| Homework: | Read through the lesson notes on the portal and complete the questions from the textbook page 4-5 (&6-7?) |
| Extension tasks: | Research the history of SI units |