Outline for Unit 1-Quiz

1. **number sets:**
* NATURAL
* INTERGERS
* RATIONAL
* IRRATIONAL
* REAL

This question is usually asked in the form of a table or a Venn Diagram.

1. **Prior learning:** Perimeter, Area and Volume of basic shapes
2. **Rounding:**
	1. Decimal places (d.p.)
	2. Significant figures(s.f.)
	3. Nearest integer (=nearest one): sometimes they will say to the nearest dollar, meter, liter….
	4. Nearest ten, tenth, hundred, hundredth, thousand, thousandth……
3. **% error:** Formula is given. (Approximate value versus exact value) **Note:** **for the exact value do not use a rounded answer** and **DON’T forget the Absolute Value Bars**. Commonly used in two cases:
	1. Estimation
	2. Rounding
4. **Scientific Notation**: **Note:** IB will not call it that. You will most likely see

$$a×10^{k} where 1\leq a<10 and k\in Z$$

**Note:** **even if** $k=1$ **you still have to write it.**

* 1. Know how to convert a number in ordinary notation into S.N. and vice versa.
	2. Know how to work different operations (add, subtract, multiply, divide, powers…) with numbers in scientific notation. **HINT**: use your calculator (your best friend ☺) EE command (N-spire: at bottom left & TI-84: second comma )
1. **SI Unit & UNIT Conversion**: Make sure to know the prefixes of the metric system. Learn how to convert units with Areas and Volumes (it could be tricky). Remember than 1 l = 1 dm3
2. **General physics concepts:** Speed, time, temperature, density