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# Order Of Magnitude Physics Understanding The World With

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11: Why Physics is so Simple 2: Order of Magnitude Estimation **Order of magnitude | Units and measurement | Class 11 Physics IB**  
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When we say that a prediction gives the right “order of

magnitude”, we usually mean that the prediction is within a factor of “a few” (up to a factor of 10) of the correct answer. For example, if a measurement gives a value of 2000, then we would consider that a model prediction of 8,000 gave the right order of magnitude (it differs from the correct answer by a factor of 4, whereas a prediction of 24,000 would not (it differs by a factor of 12).

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magnitude is an approximation of the logarithm of a value relative to some contextually understood reference value, usually ten, interpreted as the base of the logarithm and the representative of values of magnitude one. Logarithmic distributions are common in nature and considering the order of magnitude of values sampled from such a distribution can be more intuitive. When the reference value is ten, the order of magnitude can be understood as the number of digits in the base-10 reOrder of magnitude - WikipediaAn understanding of orders of magnitude is also expected when looking at road safety and stopping distances



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An understanding of orders of magnitude is also expected when looking at road safety and stopping distances for example. In some cases as part of the physics course, students will be expected to be able to give estimated values of particular quantities such as typical speed for wind, the speed of sound and various transportation methods

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