[Basic Concepts in Science: A list](http://scienceblogs.com/evolvingthoughts/2007/07/basic_concepts_in_science_a_li.php" \t "_top)

July 14, 2007 [John S. Wilkins](http://www.wilkins.id.au/)

*This is a list of the Basic Concepts posts being put up by Science Bloggers and others. It will be updated and put to the top when new entries are published. If you are not a Scienceblogger, email me (see below) and let me know of your post, or someone else's. If you want suggestions for a topic to write on, just ask.*

***Recent additions****:*

* The history of hormone therapy and menopause, parts [1](http://www.scienceblogs.com/neurotopia/2007/06/the_basics_history_of_hormone_therapy.php), [2](http://scienceblogs.com/neurotopia/2007/07/the_basics_of_menopause_and_es.php) and [3](http://scienceblogs.com/neurotopia/2007/07/the_basics_of_menopause_and_ho.php) by Evil Monkey at [*Neurotopia*](http://www.scienceblogs.com/neurotopia/)
* [Phase changes](http://scienceblogs.com/ethicsandscience/2007/07/basic_concepts_phase_changes.php), by Janet Stemwedel at [*Adventures in Science and Ethics*](http://scienceblogs.com/ethicsandscience/)

*Anyone can add to this series, even if you don't blog on Science Blogs. Email me!*

**Physics and Astronomy**

[Energy](http://scienceblogs.com/principles/2007/01/basic_concepts_energy.php) by Chad Orzel at [*Uncertain Principles*](http://scienceblogs.com/principles/)   
[Fields](http://scienceblogs.com/principles/2007/01/basic_concepts_fields.php) by Chad Orzel at [*Uncertain Principles*](http://scienceblogs.com/principles/)   
[Force](http://scienceblogs.com/principles/2007/01/basic_concepts_force.php) by Chad Orzel at [*Uncertain Principles*](http://scienceblogs.com/principles/)   
[Measurement](http://scienceblogs.com/principles/2007/03/basic_concepts_measurement.php) by Chad Orzel at [*Uncertain Principles*](http://scienceblogs.com/principles/)   
[Entropy](http://scienceblogs.com/interactions/2007/03/entropy_basic_concepts.php) by Rob Knop at [*Galactic Interactions*](http://scienceblogs.com/interactions/)   
[Redshift](http://scienceblogs.com/interactions/2007/03/redshift_basic_concepts.php) by Rob Knop at [*Galactic Interactions*](http://scienceblogs.com/interactions/)   
[Understanding Electricity](http://scottaaronson.com/blog/?p=220) by Scott Aaronson at [*Shtetl-Optimized*](http://scottaaronson.com/blog/)   
[Ohm's Law](http://feeds.feedburner.com/~r/ScienceblogsCombinedFeed/~3/109274748/basic_concepts_ohms_law.php) by Chad Orzel at [*Uncertain Principles*](http://scienceblogs.com/principles/)[Estimation and DImensions](http://scienceblogs.com/principles/2007/05/basic_concepts_estimation_and_1.php) by Chad Orzel at [*Uncertain Principles*](http://scienceblogs.com/principles/)   
[De Broglie Equation](http://wanderingprimate.blogspot.com/2007/06/de-broglie-equation.html) (quantum physics) by [*Wandering Primate*](http://wanderingprimate.blogspot.com/)   
[Phase changes](http://scienceblogs.com/ethicsandscience/2007/07/basic_concepts_phase_changes.php), by Janet Stemwedel at [*Adventures in Science and Ethics*](http://scienceblogs.com/ethicsandscience/)

A shopping list of sought Basics for physics is given [here](http://twistedphysics.typepad.com/cocktail_party_physics/2007/01/physics_is_fund.html) by *physics is fundamental* at [*Cocktail Party Physics.*](http://twistedphysics.typepad.com/cocktail_party_physics/)

**Geology**

[The Composition of the Earth](http://scienceblogs.com/highlyallochthonous/2007/03/geological_basics_the_composit.php) by Chris Rowan at [*Highly Allochthonous*](http://scienceblogs.com/highlyallochthonous/)   
[Chronology and Stratigraphy](http://scienceblogs.com/highlyallochthonous/2007/03/geological_basics_the_differen.php) by Chris Rowan at [*Highly Allochthonous*](http://scienceblogs.com/highlyallochthonous/)[Paleomagnetism](http://scienceblogs.com/highlyallochthonous/2007/05/geological_basics_the_art_of_p.php) by Chris Rowan at [*Highly Allochthonous*](http://scienceblogs.com/highlyallochthonous/)

[*Skepchick*](http://skepchick.org/blog) has a series of articles on the origins of the earth:

* I: [Introduction, the Scientific Toolbox, and Cosmic Starstuff](http://skepchick.org/blog/?p=533)
* II: [Crustal Chemistry, the Solar Nebula, and the Solar System](http://skepchick.org/blog/?p=535)
* III: [Rocks from Space and the Accretion of the Earth](http://skepchick.org/blog/?p=537)
* IV: [It's Getting Hot in Here, Differentiation, and Core Formation](http://skepchick.org/blog/?p=540)
* V: [The Moon, the Magma Ocean, and the Mantle](http://skepchick.org/blog/?p=545).

Chemistry

[pH](http://cdavies.wordpress.com/2007/02/05/ph/) by Cat at [*Lab Cat*](http://cdavies.wordpress.com/)   
[Strong and Weak Acids](http://cdavies.wordpress.com/2007/02/27/strong-and-weak-acids/) by Cat at [*Lab Cat*](http://cdavies.wordpress.com/)   
[Acids and Bases](http://cdavies.wordpress.com/2007/02/12/acids-and-bases/) by Cat at [*Lab Cat*](http://cdavies.wordpress.com/)   
[What is Food Science?](http://cdavies.wordpress.com/2006/04/10/what-is-food-science/) by Cat at [*Lab Cat*](http://cdavies.wordpress.com/)   
[Food Chemistry](http://cdavies.wordpress.com/2006/06/12/food-chemistry/) by Cat at [*Lab Cat*](http://cdavies.wordpress.com/)   
[Elements](http://scienceblogs.com/ethicsandscience/2007/02/basic_concepts_elements.php) by Janet Stemwedel at [*Adventures in Ethics and Science*](http://scienceblogs.com/ethicsandscience/)   
[Polar and Non-polar Molecules](http://scienceblogs.com/ethicsandscience/2007/03/basic_concepts_polar_and_nonpo.php) by Janet Stemwedel at [*Adventures in Ethics and Science*](http://scienceblogs.com/ethicsandscience/)   
[Intermolecular Forces](http://scienceblogs.com/ethicsandscience/2007/03/basic_concepts_intermolecular.php) by Janet Stemwedel at [*Adventures in Ethics and Science*](http://scienceblogs.com/ethicsandscience/)

**Biology**

*Genes and Genomes*[Gene](http://scienceblogs.com/pharyngula/2007/01/basics_what_is_a_gene.php) by PZ Myers at [*Pharyngula*](http://scienceblogs.com/pharyngula/)   
[What is a Gene?](http://sandwalk.blogspot.com/2007/01/what-is-gene.html) by Larry Moran at [*Sandwalk*](http://sandwalk.blogspot.com/)   
[Gene](http://gregladen.com/wordpress/?p=162) by [Greg Laden](http://gregladen.com/)   
[New definitions of a Gene](http://evolutionlist.blogspot.com/2006/10/new-definitions-of-gene.html) by Allen McNeill at [*The Evolution List*](http://evolutionlist.blogspot.com/)   
[The Richard Dawkins Definition of a Gene Is Seriously Flawed](http://sandwalk.blogspot.com/2007/01/richard-dawkins-definition-of-gene-is.html) by Larry Moran at [*Sandwalk*](http://sandwalk.blogspot.com/)   
[The Central Dogma of Molecular Biology](http://sandwalk.blogspot.com/2007/01/central-dogma-of-molecular-biology.html) by Larry Moran at [*Sandwalk*](http://sandwalk.blogspot.com/)   
[How Proteins Fold](http://sandwalk.blogspot.com/2007/02/how-proteins-fold.html) by Larry Moran at [*Sandwalk*](http://sandwalk.blogspot.com/)   
[Heat Shock and Molecular Chaperones](http://sandwalk.blogspot.com/2007/02/heat-shock-and-molecular-chaperones.html) by Larry Moran at [*Sandwalk*](http://sandwalk.blogspot.com/)   
[The Genetic Code](http://sandwalk.blogspot.com/2007/02/real-genetic-code.html) by Larry Moran at [*Sandwalk*](http://sandwalk.blogspot.com/)   
[ABO Blood types](http://sandwalk.blogspot.com/2007/02/abo-blood-types.html) by Larry Moran at [*Sandwalk*](http://sandwalk.blogspot.com/)   
[Genetics of ABO Blood types](http://sandwalk.blogspot.com/2007/02/genetics-of-abo-blood-types.html) by Larry Moran at [*Sandwalk*](http://sandwalk.blogspot.com/)   
[Genetics of Eye Color](http://sandwalk.blogspot.com/2007/02/genetics-of-eye-color.html) by Larry Moran at [*Sandwalk*](http://sandwalk.blogspot.com/)   
[Collagen](http://sandwalk.blogspot.com/2007/02/collagen.html) by Larry Moran at [*Sandwalk*](http://sandwalk.blogspot.com/)   
How do you sequence a Genome? Parts [I](http://scienceblogs.com/digitalbio/2007/01/basics_how_do_you_sequence_a_g_1.php), [II](http://scienceblogs.com/digitalbio/2007/01/basics_how_do_you_sequence_a_g.php), [III](http://scienceblogs.com/digitalbio/2007/01/basics_how_do_you_sequence_a_g_2.php), [IV](http://scienceblogs.com/digitalbio/2007/01/basics_how_do_you_sequence_a_g_3.php), [V](http://scienceblogs.com/digitalbio/2007/01/sequencing_a_genome_part_v_che.php), and [VI](http://scienceblogs.com/digitalbio/2007/02/sequencing_a_genome_part_vi_ch.php) by Ask Dr Science at [*Discovering Biology in a Digital World*](http://scienceblogs.com/digitalbio/)   
[What are Hypothetical and Putative Proteins?](http://scienceblogs.com/digitalbio/2007/02/what_are_hypothetical_proteins.php) by Ask Dr Science at [*Discovering Biology in a Digital World*](http://scienceblogs.com/digitalbio/)   
[Linkage Disequilibrium](http://scienceblogs.com/gnxp/2007/01/basic_concepts_linkage_disequi.php) by Razib at [*Gene Expression*](http://scienceblogs.com/gnxp/)   
[Mutations](http://scienceblogs.com/evolgen/2007/02/mutation.php) by evolgen at [*Coalescence*](http://scienceblogs.com/evolgen/)   
[Allele](http://scienceblogs.com/authority/2007/03/basic_concepts_allele.php) by Mike Dunford at [*The Questionable Authority*](http://scienceblogs.com/authority/)

*Evolution and Phylogenetics*   
[Evolution](http://sandwalk.blogspot.com/2007/01/what-is-evolution.html) by Larry Moran at [*Sandwalk*](http://sandwalk.blogspot.com/)   
[The Many Faces of 'Evolution'](http://scienceblogs.com/evolvingthoughts/2007/02/the_many_faces_of_evolution.php) by John Wilkins at [*Evolving Thoughts*](http://scienceblogs.com/evolvingthoughts/)

Understanding Natural Selection: Essential Concepts  
and Common Misconceptions/T. Ryan Gregory

<http://www.springerlink.com/content/2331741806807x22/fulltext.pdf>  
<http://sandwalk.blogspot.com/2009/06/what-is-natural-selection.html>  
[The Three Necessary and Sufficient Conditions of Natural Selection](http://gregladen.com/wordpress/?p=144) by [Greg Laden](http://gregladen.com/)   
[Modes of Natural Selection](http://gregladen.com/wordpress/?p=171#more-171) by [Greg Laden](http://gregladen.com/)   
[What makes Natural Selection an adaptive process?](http://scienceblogs.com/evolvingthoughts/2007/04/what_makes_natural_selection_a.php) by Carl Bajema at [*Evolving Thoughts*](http://scienceblogs.com/evolvingthoughts/)   
[Artificial and Natural Selection](http://scienceblogs.com/mikethemadbiologist/2007/02/artificial_versus_natural_sele.php) by [*Mike the Mad Biologist*](http://scienceblogs.com/mikethemadbiologist/2007/02/artificial_versus_natural_sele.php)   
[Sexual Selection](http://scienceblogs.com/gnxp/2007/02/lets_talk_aboutsexual_selectio.php) by Razib at [*Gene Expression*](http://scienceblogs.com/gnxp/)   
[Human Evolution 1001](http://gregladen.com/wordpress/?cat=25) by [Greg Laden](http://gregladen.com/)   
[Fitness](http://scienceblogs.com/evolvingthoughts/2007/01/fitness.php) by John Wilkins at [*Evolving Thoughts*](http://scienceblogs.com/evolvingthoughts/)   
[Measuring Fitness](http://scienceblogs.com/authority/2007/01/basic_concepts_measuring_fitne.php) by Mike Dunford at [*The Questionable Authority*](http://scienceblogs.com/authority/)   
[Clade](http://scienceblogs.com/evolvingthoughts/2007/01/clade_1.php) by John Wilkins at [*Evolving Thoughts*](http://scienceblogs.com/evolvingthoughts/)   
[Species](http://scienceblogs.com/evolvingthoughts/2007/01/species.php) by John Wilkins at [*Evolving Thoughts*](http://scienceblogs.com/evolvingthoughts/)   
[Primitive](http://scienceblogs.com/evolvingthoughts/2007/02/basic_concepts_progress_primit_1.php) by John Wilkins at [*Evolving Thoughts*](http://scienceblogs.com/evolvingthoughts/)   
[Macroevolution](http://www.talkorigins.org/faqs/macroevolution.html) by John Wilkins at [*Evolving Thoughts*](http://scienceblogs.com/evolvingthoughts/)   
[Ancestors](http://scienceblogs.com/evolvingthoughts/2007/04/basic_concepts_ancestors.php) by John Wilkins at [*Evolving Thoughts*](http://scienceblogs.com/evolvingthoughts/)   
Why Spiders aren't Insects, parts [I](http://thevoltagegate.blogspot.com/2006/07/why-spiders-arent-insects-i.html), [II](http://thevoltagegate.blogspot.com/2006/07/why-spiders-arent-insects-ii-or-primer_16.html), [III](http://thevoltagegate.blogspot.com/2006/07/why-spiders-arent-insects-iii.html), [IV](http://thevoltagegate.blogspot.com/2006/07/why-spiders-arent-insects-iv.html), and [V](http://thevoltagegate.blogspot.com/2006/08/why-spiders-arent-insects-v-hox-genes.html) by Jeremy Bruno at [*The Voltage Gate*](http://thevoltagegate.blogspot.com/index.html)   
[Allopatry and sympatry](http://scienceblogs.com/evolvingthoughts/2007/03/basic_concepts_allopatry_and_s.php) by John Wilkins at [*Evolving Thoughts*](http://scienceblogs.com/evolvingthoughts/)

*Ecology and Environment*   
[What is Ecology](http://thevoltagegate.blogspot.com/2007/02/basic-concepts-what-is-ecology.html)? by Jeremy Bruno at [*The Voltage Gate*](http://thevoltagegate.blogspot.com/index.html)   
[Biomes I](http://thevoltagegate.blogspot.com/2007/02/basic-concepts-ecology-know-your-biomes.html) by Jeremy Bruno at [*The Voltage Gate*](http://thevoltagegate.blogspot.com/index.html)   
[Biomes: Tropical Rain Forest](http://thevoltagegate.blogspot.com/2007/02/know-your-biomes-ii-tropical-rain.html) by Jeremy Bruno at [*The Voltage Gate*](http://thevoltagegate.blogspot.com/index.html)   
[Biomes III: Tropical Dry Forest](http://thevoltagegate.blogspot.com/2007/02/know-your-biomes-iii-tropical-dry.html) by Jeremy Bruno at [*The Voltage Gate*](http://thevoltagegate.blogspot.com/index.html)   
[Biomes IV: Tropical Savannah](http://scienceblogs.com/voltagegate/2007/03/know_your_biomes_iv_tropical_s.php) by Jeremy Bruno at [*The Voltage Gate*](http://scienceblogs.com/voltagegate/)   
[Biomes V: Deserts](http://scienceblogs.com/voltagegate/2007/03/know_your_biomes_v_deserts.php) by Jeremy Bruno at [*The Voltage Gate*](http://scienceblogs.com/voltagegate/)   
[Biomes VI: Temperate Grassland](http://feeds.feedburner.com/~r/ScienceblogsCombinedFeed/~3/110593636/know_your_biomes_vi_temperate.php) by Jeremy Bruno at [*The Voltage Gate*](http://scienceblogs.com/voltagegate/)[Biomes VII: Temperate Forest](http://scienceblogs.com/voltagegate/2007/05/know_your_biomes_vii_temperate.php) by Jeremy Bruno at [*The Voltage Gate*](http://scienceblogs.com/voltagegate/)   
[Conservation versus Preservation](http://scienceblogs.com/tfk/2007/04/basics_conservation_vs_preserv.php) by Joshua Rosenau at [*Thoughts from Kansas*](http://scienceblogs.com/tfk/)

*Developmental biology*

[The Pharyngula Stage](http://scienceblogs.com/pharyngula/2007/05/basics_the_pharyngula_stage.php) by PZ Myers at [*Pharyngula*](http://scienceblogs.com/pharyngula/)   
[Gastrulation in Vertebrates](http://scienceblogs.com/pharyngula/2007/02/basics_gastrulation.php) by PZ Myers at [*Pharyngula*](http://scienceblogs.com/pharyngula/)   
[Gastrulation in Invertebrates](http://scienceblogs.com/pharyngula/2007/02/basics_gastrulation_invertebra.php) by PZ Myers at [*Pharyngula*](http://scienceblogs.com/pharyngula/)   
[Neurulation](http://scienceblogs.com/pharyngula/2007/03/basics_neurulation.php) by PZ Myers at [*Pharyngula*](http://scienceblogs.com/pharyngula/)[Allometry](http://scienceblogs.com/pharyngula/2007/06/basics_allometry.php) by PZ Myers at [*Pharyngula*](http://scienceblogs.com/pharyngula/)

*Other or multiple topics*   
[Artifacts and Vectors](http://scienceblogs.com/digitalbio/2007/02/biology_as_a_second_language_w.php) by Ask Dr Science at [*Discovering Biology in a Digital World*](http://scienceblogs.com/digitalbio/)   
[8th Grade Math (Hardy Weinberg, Genetic Variance, Molecules and Phylogenies, Kin](http://scienceblogs.com/gnxp/2007/01/basic_concepts_8th_grade_math.php)) by Razib at [*Gene Expression*](http://scienceblogs.com/gnxp/)   
[Biological Clock](http://scienceblogs.com/clock/2007/01/basics_biological_clock.php) by Bora Zivkovic at [*A Blog Around the Clock*](http://scienceblogs.com/clock/)   
[Anisogamy](http://matt-at-berkeley.blogspot.com/2007/01/anisogamy.html) *by* Matt, at [*Behavioral Ecology Blog*](http://matt-at-berkeley.blogspot.com/index.html)   
[Cell migration](http://migration.wordpress.com/2007/01/29/basic-concepts-cell-migration/) by Dan, at [*Migrations*](http://migration.wordpress.com/)   
[Hearing](http://scienceblogs.com/retrospectacle/2007/02/basic_concepts_hearing_1.php) by Shelley at [*Retrospectacle*](http://scienceblogs.com/retrospectacle/)   
[How do we smell?](http://balancinglife.blogspot.com/2006/01/happy-hour-and-how-do-we-smell.html) by Sunil at [*balancing life*](http://balancinglife.blogspot.com/index.html)*.*[Prions](http://scienceblogs.com/retrospectacle/2007/02/basic_concepts_prions.php) by Shelley at [*Retrospectacle*](http://scienceblogs.com/retrospectacle/)   
[Cell Theory](http://migration.wordpress.com/2007/03/02/basics-cell-theory/) by Dan at [*Migrations*](http://migration.wordpress.com/)   
[Blood Clotting](http://sandwalk.blogspot.com/2007/04/blood-clotting-basics.html) by Larry Moran at [*Sandwalk*](http://sandwalk.blogspot.com/index.html)

*Teaching resources for biology*   
Bora Zivkovic at [*A Blog Around the Clock*](http://scienceblogs.com/clock/) has a series of lectures as posts that teachers may find useful, his BIO101 speed-course lecture (and lab) notes. Almost none of them cover a very narrow term or concept (some come close):

* [Introduction](http://scienceblogs.com/clock/2006/10/teaching_biology_101_to_adults.php)
* [Biology and the Scientific Method](http://scienceblogs.com/clock/2006/11/biology_and_the_scientific_met.php)
* [Lab 1](http://scienceblogs.com/clock/2006/07/teaching_biology_lab_week_1.php)
* [Cell Structure](http://scienceblogs.com/clock/2006/11/cell_structure.php)
* [Protein Synthesis: Transcription and Translation](http://scienceblogs.com/clock/2006/11/protein_synthesis_transcriptio.php)
* [Cell-Cell Interactions](http://scienceblogs.com/clock/2006/11/cellcell_interactions.php)
* [Cell Division and DNA Replication](http://scienceblogs.com/clock/2006/11/from_one_cell_to_two_cell_divi.php)
* [Lab 2](http://scienceblogs.com/clock/2006/07/teaching_biology_lab_week_2.php)
* [From Two Cells To Many: Cell Differentiation and Embryonic Development](http://scienceblogs.com/clock/2006/12/from_two_cells_to_many_cell_di.php)
* [From Genes To Traits: How Genotype Affects Phenotype](http://scienceblogs.com/clock/2006/12/from_genes_to_traits_how_genot.php)
* [From Genes To Species: A Primer on Evolution](http://scienceblogs.com/clock/2006/12/from_genes_to_species_a_primer.php)
* [What Creatures Do: Animal Behavior](http://scienceblogs.com/clock/2006/12/what_creatures_do_animal_behav.php)
* [Organisms In Time and Space: Ecology](http://scienceblogs.com/clock/2007/01/organisms_in_time_and_space_ec.php)
* [Lab 3](http://scienceblogs.com/clock/2006/07/teaching_biology_lab_week_3.php)
* [Origin of Biological Diversity](http://scienceblogs.com/clock/2007/01/origin_of_biological_diversity.php)
* [Evolution of Biological Diversity](http://scienceblogs.com/clock/2007/01/evolution_of_biological_divers.php)
* [Current Biological Diversity](http://scienceblogs.com/clock/2007/01/current_biological_diversity.php)
* [Lab 4](http://scienceblogs.com/clock/2006/08/teaching_biology_lab_week_4.php)
* [Introduction to Anatomy and Physiology](http://scienceblogs.com/clock/2007/02/introduction_to_anatomy_and_ph.php)
* [Physiology: Regulation and Control](http://scienceblogs.com/clock/2007/02/physiology_regulation_and_cont.php)

**Historical and social sciences**

[Pottery in Archeology](http://hotcupofjoe.blogspot.com/2007/01/basic-concepts-pottery-in.html) by CFeagans at [*Hot Cup of Joe*](http://hotcupofjoe.blogspot.com/)   
[Cause, Manner and Mechanism of Death](http://drzeusforensicfiles.blogspot.com/2007/01/basic-concepts-cause-manner-and.html) [Forensic science] by William the Coroner at [*Dr Zeus's Forensic Files*](http://drzeusforensicfiles.blogspot.com/)

Mathematics, Philosophy, Logic and Computer Science

*Statistics*   
[Normal Distribution](http://scienceblogs.com/goodmath/2007/01/basics_normal_distributions_1.php) by Mark Chu-Carroll at [*Good Math, Bad Math*](http://scienceblogs.com/goodmath/)   
[Mean, Median and Mode](http://scienceblogs.com/goodmath/2007/01/basics_mean_median_and_mode.php) by Mark Chu-Carroll at [*Good Math, Bad Math*](http://scienceblogs.com/goodmath/)   
[Standard Deviation](http://scienceblogs.com/goodmath/2007/01/basics_standard_deviation_1.php) by Mark Chu-Carroll at [*Good Math, Bad Math*](http://scienceblogs.com/goodmath/)   
[Margin of Error](http://scienceblogs.com/goodmath/2007/01/basics_margin_of_error.php) by Mark Chu-Carroll at [*Good Math, Bad Math*](http://scienceblogs.com/goodmath/)   
[Correlation (and Causation, and Random Variables)](http://scienceblogs.com/goodmath/2007/01/basics_correlation_1.php) by Mark Chu-Carroll at [*Good Math, Bad Math*](http://scienceblogs.com/goodmath/)   
[Binary Search](http://scienceblogs.com/goodmath/2007/04/basics_binary_search_1.php) by Mark Chu-Carroll at [*Good Math, Bad Math*](http://scienceblogs.com/goodmath/)   
[Innumeracy](http://scienceblogs.com/goodmath/2007/04/basics_innumeracy.php) by Mark Chu-Carroll at [*Good Math, Bad Math*](http://scienceblogs.com/goodmath/)   
[Percentage and percentage points](http://kriswager.blogspot.com/2007/03/difference-between-percentage-and.html) by Kristjan Wager at [*Pro-Science*](http://kriswager.blogspot.com/)

Statistics Primer, Part [1](http://echidneofthesnakes.blogspot.com/2006_10_01_echidneofthesnakes_archive.html#115999142934881949), [2](http://echidneofthesnakes.blogspot.com/2006_10_01_echidneofthesnakes_archive.html#116002687873002939), [3](http://echidneofthesnakes.blogspot.com/2006_10_01_echidneofthesnakes_archive.html#116037527195954961), [4](http://echidneofthesnakes.blogspot.com/2006_10_01_echidneofthesnakes_archive.html#116097203371467559), and [5](http://echidneofthesnakes.blogspot.com/2006_10_01_echidneofthesnakes_archive.html#116132218283480515) by [*Echidne of the Snakes*](http://echidneofthesnakes.blogspot.com/)   
[Unfortunately, each post does not open in a separate window, but the whole thing is accessible from [here](http://www.echidne-of-the-snakes.com/stats)]

*General Mathematics*

[Multidimensional Numbers](http://scienceblogs.com/goodmath/2007/02/basics_multidimensional_number_1.php) by Mark Chu-Carroll at [*Good Math, Bad Math*](http://scienceblogs.com/goodmath/)   
[Vectors](http://scienceblogs.com/goodmath/2007/02/basics_vectors_the_other_dimen_1.php) by Mark Chu-Carroll at [*Good Math, Bad Math*](http://scienceblogs.com/goodmath/)   
[Algebra](http://scienceblogs.com/goodmath/2007/02/basics_algebra.php), by Mark Chu-Carroll at [*Good Math, Bad Math*](http://scienceblogs.com/goodmath/)   
[Calculus](http://scienceblogs.com/goodmath/2007/02/basics_calculus_1.php) by Mark Chu-Carroll at [*Good Math, Bad Math*](http://scienceblogs.com/goodmath/)   
[Limits](http://scienceblogs.com/goodmath/2007/02/basics_limits.php) by Mark Chu-Carroll at [*Good Math, Bad Math*](http://scienceblogs.com/goodmath/)   
[Recursion](http://scienceblogs.com/goodmath/2007/01/basics_recursion_and_induction_1.php) by Mark Chu-Carroll at [*Good Math, Bad Math*](http://scienceblogs.com/goodmath/)   
[Turing Machine](http://scienceblogs.com/goodmath/2007/02/basics_the_turing_machine_with_1.php) by Mark Chu-Carroll at [*Good Math, Bad Math*](http://scienceblogs.com/goodmath/)   
[The Halting Problem](http://scienceblogs.com/goodmath/2007/02/basics_the_halting_problem.php) by Mark Chu-Carroll at [*Good Math, Bad Math*](http://scienceblogs.com/goodmath/)   
[Real Numbers](http://scienceblogs.com/goodmath/2007/02/basics_real_numbers_2.php) by Mark Chu-Carroll at [*Good Math, Bad Math*](http://scienceblogs.com/goodmath/)   
[Algorithm](http://scienceblogs.com/goodmath/2007/02/basics_algorithm_1.php) by Mark Chu-Carroll at [*Good Math, Bad Math*](http://scienceblogs.com/goodmath/)   
[Discrete versus Continuous [Mathematics]](http://scienceblogs.com/goodmath/2007/03/basics_discrete_vs_continuous_1.php) by Mark Chu-Carroll at [*Good Math, Bad Math*](http://scienceblogs.com/goodmath/)   
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**Learning Science**

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In each case, read the comments too.

I've decided to list these by field and topic and author, respectively (this allows multiple authors to cover one topic, as in Gene).

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