HPS S1 Final Exam Terms 2019

Random vs Systematic Errors (personal, method, instrumental)

IV, DV, CV

Measurement (including uncertainty)

D.A. (metric and English)

Metric Prefixes (K, H, Dk, Base, d, c, m)

Accuracy vs. Precision

Theories vs. Laws

Sig figs (counting and calculating)

Scientific Process, Graphs, Tables

Motion calcs & units (speed, velocity, acceleration)

Motion Graphs (x vs. t, v vs. t, a vs. t)

Forces (gravity, friction, air resistance, net force, etc)

Newton’s 3 Laws (inertia, F=ma, action-reaction)

CD, SFS, PT

Energy (units, KE vs PE, ME, calcs, E transformations)

PE (elastic, GPE, chemical)

E circulation thru spheres (heat transfer – convection, conduction, radiation)

Air masses, fronts

Parts of an atom

# e-, p+, n, mass #, atomic #

Ions vs. Isotopes

Nuclear Reactions (fission vs fusion)

Radioactive Decay (forces in nucleus)

Relative Dating terms (cross-cutting, superposition, horizontality)

Absolute Dating (C-14 vs U-238, half-life problems)

Waves (anatomy, transverse vs longitudinal)

Wave behavior (diffraction, interference, etc)

Frequency, Period, Wave Speed

EM Spectrum, f, wavelength, E

Transmitting info via waves

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