

Earth Sciences 023a /123a Fall Term (2006)

REVISED

LAB DESCRIPTIONS

(Lab Room in B&G Bldg. Rm. 118)

Lab No.	Description	Page	Date¹
0	Atoms and Elements - All material will be in computer-based modules. A short test on the material at the end of the lab will serve as the written lab report.		Sept 18
2	Outdoor magnetics survey - Shallow outdoor model for exploration based on a buried pipe near the Visual Arts Building	11	Sept 25
1	Exploration Seismology - Shallow seismic experiment: (1a) outdoor demonstration of the field technique (1b) indoor reduction of the data	6	Oct 02
3	Electrical Resistivity Experiment - Outdoor shallow model for exploration of a buried pipe near Visual Arts Building OR indoor experimental sand box model for the electrical resistivity method	15	Oct 16
6	Earthquake Seismology - Exercise in the location of earthquake epicenters from arrival times of seismic waves. Manual exercise and follow-up web-based module.	28	Oct 23
5	Radioactivity Experiment - Use in exploration and age dating. (5a) prospecting for radioactive minerals - a model experimental (5b) radiometric age dating - an analog experiment	22	Nov 06
8	Plate Tectonics - All material will be in computer-based modules. A short test on the material at the end of the lab will serve as the written lab report.		Nov 13
4	Gravity Experiment - Variation of gravity with altitude above Earth's surface (in Middlesex College)	18	Nov 20
7	Geomagnetism and Polar Wander - (7a) demonstration of the motion of charged particles in a magnetic field (Van Allen radiation belts); (7b) exercises (to be handed out) to determine polar wander paths	32	Nov 27
Lab Test (in class)			Dec 05

¹ Date of Monday lab; other labs to be performed in that same week

