

Bahe's Physics 8: Unit 1 Class Schedule & Assignments: Motion I

Week 3: Sept. 4 - 11, 2017

Physics 8: Class Schedule & Assignments: Unit 1: Motion Part 1			
Week 1, Aug 24	Day 3 Thurs	Intro to course; Receive Binder; Science Policies; See Bahe's Physics 8 Webpage http://science.jburroughs.org/mbahe/Physics8/Physics8HomePage.html Lab: Coordinates for the clock location & unknown object's location Do 4.1 Position on the Coordinate Plane (Binder 9-11)	This space would have been HW due for Thursday (today) but we didn't have class yet! It was still summer.
	Day 4 Fri	Introduce/Review Metric System (Binder 15 & 17) Lab: Metric Measurements - Length Lab: Metric Measurements – Mass & Time (Use Measuring Length Binder 121) Practice Converting between metric units	Finish problems on 4.1 Position on the Coordinate Plane (Binder 9-11) (Started in class) Review Textbook pg. 4-6, and 9 -11 and 14; Read and sign the safety contract (Binder 3); Read Course Expectations & Science Policies (Binder 5-6); Look at objectives (Binder 7) Put Dividers into binder Unit 1 (p. 1-90); Unit 2 (p. 91-134); Unit 3 (p. 135 - 182); Unit 4 (p. 183 - 228); Unit 5 (p. 229 - 270) and R.G. Project (pg. 271 - 278)
Week 2 Aug 28	Day 1 Mon	Introduce Position, Distance & Displacement (ppt) Lab: Washer Motion Activity (Binder 27-29)	Do Position on Coordinate Plane Extra Practice (Binder 13-14) Read 1.1 SI Units (Binder pg. 23-25) and Do Practice (Binder pg. 26)
	Day 2 Tues	Review HW; Lab: Toy Motion – 1) observe motion of variety toys (10 min Binder 39-40); 2) collect motion over time Discuss or do: 1) How to make a data table and how to graph; 2) Independent & dependent variables; 3) Construct a position-time graph of toy motion (Binder 40-41); If Time/needed: Discuss Dimensional Analysis (Binder 31-33)	Read Text p. 78 and 83 Complete the Washer Activity, Binder 27-29 (mostly done in class). Do 1.3 SI Unit Conversion – Extra Practice (Binder 35-37)
	Day 3 Thurs	Lab: Constant Speed 1; 1) Graph data- Binder 49-50 (two lines, walking fast and walking slow) (Ignore motion map until later); Explain how to graph the data.	Finish your data table and graph of the toy motion (Binder 41); Do Identifying Constants & Experimental Variables (binder 43-44) and 1.1 Stopwatch Math (Binder 45-47)
	Day 4 Fri	QUIZ: Metric Conversions; Position, Distance, and Displacement (Very Short) Discuss Lab Constant Speed 1 results Binder 49-50 (two lines) (Ignore motion map until later); Discuss and do Lab Constant Speed 2 two sets – walking fast and walking slow (Binder 55-56);	Complete Constant Speed 1 (Binder 49-50 – Ignore Motion Map for now) AND do Scatter Plots (Binder 51-53). REVIEW FOR QUIZ (Redoing practice problems is good way to study)
Week 3 Sept. 4	Day 1 Mon	LABOR DAY!!!	No School; No Assignment
	Day 2 Tues	Complete Data for Constant Speed 2 (Binder 55-56) if needed Introduce Motion Maps How to make a motion map Try making and reading motion maps (Use Binder pg. 59 and 60 in class);	Read Motion Maps (Binder pg. 57-58 not 59 – Just read; we will do problems in class) Watch youtube video: Falconphysics Democast – Making Sense of Motion Maps (11 minutes): http://www.youtube.com/watch?v=uF7XyddBgQ4 Do 2.3 Interpreting Graphs (Binder 61-62)
	Day 3 Thurs	Whiteboard Motion Maps (Binder pg. 59-60) Lab: Constant Speed 3 & 4 (away from and toward origin on the negative side – Binder pg. 63-64)	Complete Lab Constant Speed 2 (Binder 55-56 – Include the motion map).
	Day 4 Fri	Compare 4 sets of Graphs (Const. Speed 1, 2, 3 & 4); Develop concept of slope and discuss Slope, Rate and Velocity; Do mathematical Expressions (Use Binder 67-70 - some) Use Binder pg. 71-72 (Calculating Slope from a Graph) in class	Complete Constant Speed 3 (Binder 63-64) – Make sure to add the motion maps at the top right. Do What's the Scale (Binder 65-66)
Week 4 Sept. 11	Day 1	5 minute QUIZ: Motion Map & Graphing Practice Mathematical Expressions Preview of the Lab Quiz - Tomorrow	Finish Calculating Slope (Binder 71-72) Finish 4.1 Speed (Binder 67-70 – ALL Problems not done in class)