Objective Reinforcement Plan Name:_____

1-D Motion

Objective	Reinforcement	Quiz 1	Practice Test
1.1 Define, distinguish, and discuss between the following kinematic terms: distance, displacement, speed, velocity, acceleration, rate, scalar, vector, average speed and velocity, instantaneous speed and velocity, relative motion, slope, area, constant	**1)Read book: pg 47-52, 57-60** **2) Text book problems: pg 62 #3,5,6, 42** 3)MOP: Mechanics → Kinematics Concepts: sblvl 1 4) SBM: Reading & Study WS – Exercises – Ch.4: #4-23 *Additional Help: Read TPC: 1-D Kinematics Lesson 1a-e Answer CYU*		
1.2 Solve conceptual/numerical/relationship problems involving objects having constant velocity or speed.	**1) Read book: pg. 48-50 and complete both THINK! Boxes** **2) Text Problems: pg. 64 #26-31** 3) MOP: Mechanics → Kinematics Concepts: sblvl 6 4) SBM: Reading & Study WS – Exercises – Ch.4: #4-16, SBM: Next Time Question 4-1, SBM: Problem Solving Exercises 2-1 #1-4a SBM: Concept Development 4-1: Non-Accelerated Motion		
1.3 Solve conceptual/numerical/relationship problems involving objects having constant acceleration.	**1) Read TPC: 1-D Kinematics Lesson 6d –Choose 5 problems from the list and show your work.** **2) Text Problems: pg. 62 #7-9, 21, 32-33** 3) MOP: Mechanics → Kinematics Concepts: sblvl 7 4) SBM: Reading & Study WS – Exercises – Ch.4: #17-23 SBM: Problem Solving Exercises 2-1 #5-7 SBM: Concept Development 4-1: Accelerated Motion		
1.4 Solve kinematics problems involving an object in free fall that is dropped or thrown downwards.	**1) Read book: pg. 53-56** **2) Text Problems: pg 62 #13, 22, 37, 39, 41, 43** 3) MOP: Mechanics→ Newton's Laws: sblvl 10 4) SBM: Reading & Study WS – Exercises – Ch.4: #24-36 SBM: Problem Solving Exercises 2-2 #9,10, 12-14 SBM: Concept Development 4-1: Free Fall *Additional Help: Read TPC: 1-D Kinematics Lesson 5*		
1.5 Solve kinematics problems involving an object in free fall that is thrown upwards.	**1) Read TPC: 1-D Kinematics 6c and solve the second problem** **2) Text Problems: pg. 66 #54, 57** 3) MOP: Mechanics→ Newton's Laws: sblvl 10 4) SBM: Reading & Study WS – Exercises – Ch.4: #24-36 SBM: Problem Solving Exercises 2-2 #11, A-13 SBM: Concept Development 4-1: Straight Up & Down		

Objective	Reinforcement	Quiz 1	Practice Test
1.7 Calculate, identify, and interpret unknown quantities given a position-time graph.	**1) Read book: pg. 58 answer the concept check** **2) MOP: Mechanics → Kinematics Graphing: sblvl 2** 3) MOP: Mechanics → Kinematics Graphing: sblvl 10 4) SBM: Reading & Study WS – Exercises – Ch.4: #40 & 41 SBM: Problem Solving Exercises 2-1 #4b		
1.8 Calculate, identify, and interpret unknown quantities given a velocity-time graph.	**1) Read book: pg. 57 Show work to determine the acceleration for obj. graphed** **2) MOP: Mechanics → Kinematics Graphing: sblvl 6** 3) MOP: Mechanics → Kinematics Graphing: sblvl 10 4) SBM: Reading & Study WS – Exercises – Ch.4: #37-39		
1.9 Calculate, identify, and interpret unknown quantities given an acceleration-time graph.	**1) Go to the following website:** **http://www.sparknotes.com/testprep/books/sat2/physics/chapter5section3.rhtml** **Read the section on Acceleration vs time graphs and determine the velocity change from t=2-5 seconds and t=6-7 seconds**		
1.10 Given the shape of a displacement/velocity/acceleration graph, redraw the same motion on a different type of graph.	**1) Read book: pg. 58 draw the v vs t and a vs t graph for the graph shown** **2) Go to TPC 1-D Kinematics Lesson 4d CYU. Construct the d vs t and the a vs t for each of the three graphs.**		

Passing score is a 55% and above.

Bold activities are required. Choose either ALL the SBM or the MOP. All information is on your initial handout. Extra copies can be found at mrsgiegler.weebly.com on the Physics 432 Units.