

Motion

Lesson: F2-1 How are motion and speed related?
Author: Mr. Hilvers
Endorsed: St. Lawrence School
Level: Grade 5

Lesson Objective

Recognize and describe the relationships among speed, velocity, acceleration and momentum.

Teaching Procedure

Day 1: Do Investigate activity, p. F32-33. Show video: <file:///G:/Teachers/Hilvers/St%20Lawrence/FantasticMachineAV.wmv>

Day 2: Read/discuss p. F34-35.

Day 3: Read/discuss p. F36-37.

Homework Assignment

Worksheet WB312

Lesson: F2-2 What are the three laws of motion?
Author: Mr. Hilvers
Endorsed: St. Lawrence School
Level: Grade 5

****Correct Homework, if any****

Lesson Objective

Analyze and explain the three laws of motion.

Teaching Procedure

Day 1: Do activity, p. F38-39. Bring in toy car.

Day 2: Read/discuss p. F40-41. Assign worksheet WB317.

Demonstrate Third Law by showing battleship gun firing at <http://battleshipnc.com/history/bb55/layout/armament/16inch.php#>

Day 3: Read/discuss p. F42-43.

Homework Assignment

Worksheet WB317

Lesson: F2-3 Why do planets stay in orbit?
Author: Mr. Hilvers
Endorsed: St. Lawrence School
Level: Grade 5

****Correct Homework, if any****

Lesson Objective

Describe how inertia and gravity interact to make an orbit.

Explain the law of universal gravitation.

Teaching Procedure

Day 1: Do activity, p. F46-47. Bring in metal washers and string.

Day 2: Read/discuss p. F48-49. Assign puzzle WB323.

Day 3: Read/discuss p. F50-51. Review for test.

Homework Assignment

Worksheet WB323