



# UCONN PHYSICS SYLLABUS - 1st QUARTER

(August 30, 2023 - November 3, 2023) ~ [9wks]



## Unit 3: Vector Analysis

Textbook: Physics - James Walker (AP-edition)

(~1.0 week)

Required reading is: Chapter 3 pg 57-74

Recommended videos: <http://www.flippingphysics.com/algebra.html>

\*Vectors and Scalars. Videos 1-7

### Assignment:

#### Homework:

Worksheet I

### Date Due

### Points

Worksheet II

10-05

40 pts.

Unit 3: Homework Packet

10-10

40 pts.

Lab: Vector Addition

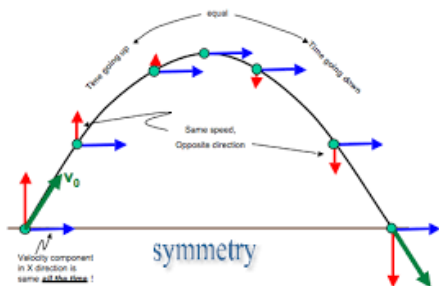
10-11

50 pts.

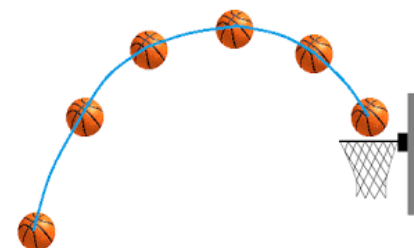
Quiz: Form A, B, C, D

10-13

40 pts.



## Unit 4: Two Dimensional Motion



Textbook: Physics - James Walker (AP-edition)

(~2.0 weeks)

Required reading is: Chapter 4 pg 82-99

### Assignment:

#### Homework:

Worksheet I: Free Body Diagrams I

### Date Due

### Points

Unit 4: Homework Packet

10-17

36 pts.

Worksheet II: Free Body Diagrams II Review

10-24

50 pts

Lab: Projectile motion lab (Gizmo – Feed the Monkey)

10-18

50 pts

Lab: Vectors & Friction on an Incline

10-20

50 pts.

Quiz: Form A,B,C,D

10-23

50 pts.

Test: Unit 3 & Unit 4

10-25

70 pts.

Update: 10-15-2023

### 2-Dimensional Motion

Horizontal

The only thing to affect the ball is friction, and we don't look at that!

Velocity is always constant!

Vertical

What affects the ball?  
Gravity! (No friction)

$g = -9.8\text{m/s}^2$