

Name _____

Period _____

Statics Contract

Homework

- ___ **HW 2C: Read 2.6 - 2.8 E 18,23,24 (Net Force, equilibrium)**
- ___ **Vector Worksheet**
- ___ Vector Review Sheet
- ___ **Trig Review Sheet**
- ___ Trig Review Sheet II
- ___ **Components Worksheet**
- ___ Components Worksheet II
- ___ **Components Worksheet III (Inclined planes)**
- ___ FBD Practice Sheet
- ___ FBD Endgame Review
- ___ **Free Body Diagram Worksheet I (FBD I)**
- ___ **FBD II (Inclined planes)**
- ___ **FBD III (Multiple bodies)**
- ___ FBD IV (Review)
- ___ Above and Beyond: FBD V
- ___ CD 4-2 (Conceptual Development Workbook) Skip problems 1 - 3
- ___ CD 4-3
- ___ Algebra Review Sheet
- ___ **Current Events**
- ___ **Class Notes**
- ___ Motion Retest Review Sheet
- ___
- ___
- ___

Labs

- ___ **Statics Station Lab**
- ___ **Statics Station Lab II**
- ___ Force Table Activity
- ___ Mystery Force Activity
- ___ Sensei Physics Vectors
- ___
- ___

Self

Teacher

CONTRACT GRADE ___ ___

Grade is based on a total of 15 items.

Number of items completed: _____

Essential Questions:

What is a net force? What is equilibrium? What is true about the sum of force vectors for an object in equilibrium? Can an object in equilibrium be moving?

What is a normal force? On a molecular scale, what causes normal forces? In what direction do they act? What is tension? In what way is it related to normal forces?

What is friction? What causes friction? What is its effect on motion? In what direction does it act?

Things You Should Be Able to Do:

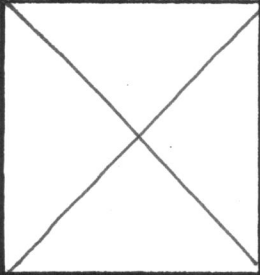
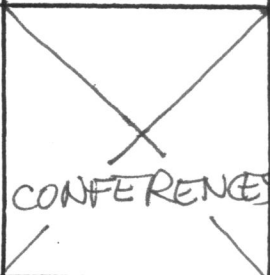
Be able to add or subtract vectors by 1) adding head to tail, 2) using the parallelogram method, and 3) by adding components.

Be able to find the components of a vector by using the trig functions of sin, cos and tan. Be able to find the vector sum if the components are known.

Create a free body diagram (FBD) for one or more objects in equilibrium.

Solve statics problems using force components and the equations for $F_x = 0$ and $F_y = 0$.

Solve statics problems for objects on inclined planes using force components and the equations for $F_{\parallel} = 0$ and $F_{\perp} = 0$.

Monday	Tuesday	Wednesday	Thursday	Friday
		9/30	10/1 HW2C	10/2
10/5 TRIG REVIEW	10/6	10/7 FBD I	10/8 FBD II	10/9
	10/13	10/14 FBD III	10/15 PARENT	 CONFERENCE

ALL OPTIONAL WORK DUE MON, 10/19.

TESTS, CONTRACTS DUE TUES 10/20