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| G:\Logos\Logos 0708\GriffinRW.jpg Physics | Topic/ Objective:Unit 3: Forces | Name: |
| Period: Date: |
| Essential Question: How can forces predict motion?  |
| Questions: | Notes: |
|  How do scientists describe and measure forces? | When forces are combined, \_\_\_\_\_\_\_\_ forces can be added. Note: \_\_\_\_\_\_\_\_\_\_ are established using (+) and (-) signs. When forces are in opposite directions, the \_\_\_\_\_ force is the in \_\_\_\_\_\_\_\_\_ of the largest force. When multiple forces act on object,all of the forces can be added together to find the\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ (\_\_\_\_or\_\_\_\_\_) on the object. |
| How do forces combine? |
| Force Vector Addition Samples:   + 4N + + 3N = + 7N+ 4N + - 3N = + 1NMagnitude: Angle: \*(4N)2 + (3N)2 = R2 θ = tan -1 (3N/4N) 116N2 + 9N2 = R2 θ = 37o25N2 = R25N = R \* ALG II students only Mac HD:Users:913071:Desktop:Screen Shot 2014-10-27 at 4.51.33 PM.png |
|  | Mac HD:Users:913071:Desktop:Screen Shot 2014-10-30 at 8.44.35 AM.pngWhen the net force is \_\_\_\_\_, the forces are \_\_\_\_\_\_\_\_\_\_\_\_.  velocity stays the same. Mac HD:Users:913071:Desktop:Screen Shot 2014-10-30 at 8.44.35 AM.pngWhen the net force is \_\_\_ \_\_\_\_ the forces are \_\_\_\_\_\_\_\_\_.  velocity changes ACCELERATION OCCURS!!  |
| Summary:  |
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| Questions: | Notes: |
|  | When the \_\_\_\_ are \_\_\_\_\_\_\_\_:   FNET = \_\_\_\_ or ΣF = \_\_\_\_ The object is at rest so (v = 0 and a = 0) . . . . .  This is called \_\_\_\_ \_\_\_\_\_\_\_\_. ORThe object moves at \_\_\_\_ \_\_\_\_ (v≠ 0 and a = 0) . . .  This is called \_\_\_\_ \_\_\_\_\_\_\_\_.  |
| When The \_\_\_\_ are \_\_\_\_ \_\_\_\_\_\_\_\_:FNET ≠ \_\_\_\_ or ΣF ≠ \_\_\_\_The velocity is \_\_\_\_ (a ≠ 0)The object is \_\_\_\_ (velocity is changing) This is called Disequilibrium. |
| Summary: |
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