

Physics  
Review: Vectors

Date of test: \_\_\_\_\_

VECTOR VOCAB.

Vector  
Scalar  
Magnitude  
Direction  
Resultant  
Equilibrant  
Newton (N)  
Concurrent Forces  
Resolution of Forces  
Static Equilibrium

SKILLS:

- Construct a vector to scale, given its magnitude and direction
- Determine the magnitude and direction of a vector drawn to scale
- Add vectors graphically (head to tail or parallelogram); find resultant; find equilibrant
- Use vectors to solve "river" or "airplane" problems; be able to use graphical method (scale drawing) to find magnitude, and protractor to find direction; be able to use the mathematical methods (Pythagorean theorem or trig. Functions) to find magnitude, and trig functions to find direction (tan).
- Given a vector, determine its perpendicular components along its x and y axes either graphically (scale drawing) or mathematically (trig functions); given the perpendicular components, find resultant, either graphically or mathematically
- Given the weight of an object on an incline plane, find the components of the weight acting parallel and perpendicular to the surface of the plane
- Given the components of a vector, find the magnitude and direction of the vector in polar form
- Solve static equilibrium problems involving concurrent forces (as done in the lab)

