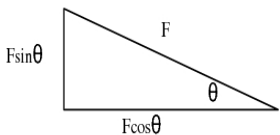


**AS Level Physics scheme of work**  
AS Unit 2 Mechanics, Elastic Properties and Waves

Learning objectives	Time scale	Activities/resources	Independent learning	Assessment
3.2.1 Mechanics Scalars and Vectors	1	Categorising quantities as scalars and vectors  Adding vectors by scale drawing (walking activity) or Pythagoras for perpendicular vectors.  Summary questions 1 & 2 page 93 AQA AS Physics A textbook	Practice adding vectors using the applet from Physicsweb ( <a href="http://www.surendranath.org/Applets/Math/VectorAddition/VectorAdditionApplet.html">http://www.surendranath.org/Applets/Math/VectorAddition/VectorAdditionApplet.html</a> )  Preparation for addition of vectors test	Quick test on vector addition next lesson
Resolving vectors into perpendicular components	1	Trolley and ink practical demonstration of resultant from perpendicular vectors.  Emphasis on knowing this triangle    Application to components of weight on an inclined plane.	Summary questions 3 & 4 page 93 AQA AS Physics A textbook	Beat the computer, finding perpendicular components (Physicsweb, <a href="http://www.walter-fendt.de/ph14e/forceresol.htm">http://www.walter-fendt.de/ph14e/forceresol.htm</a> )
Equilibrium	2	Conditions for equilibrium  Force board practical  Problem solving page 96, exam style	Practice of force board type problems from Physicsweb link ( <a href="http://www.walter-fendt.de/ph14e/equilibrium.htm">http://www.walter-fendt.de/ph14e/equilibrium.htm</a> )	Self / peer / teacher assessment of homework and class problem solving  Friday Afternoon Physics