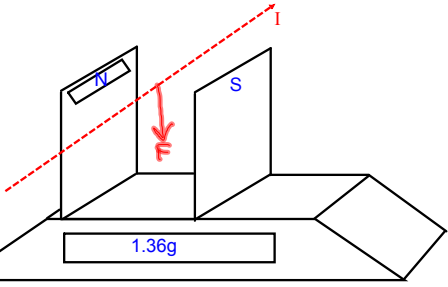
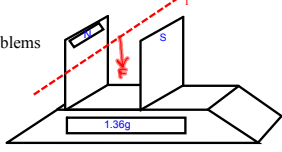


Learning Goals:
 Verify the equation $F=BIL$
 Apply Fleming's left hand rule to a range of problems


Devise a simple experiment that would verify the relationship $F=BIL$.



Learning Goals:
 Verify the equation $F=BIL$
 Apply Fleming's left hand rule to a range of problems



Current (A)	Force (N)



Learning Goals:
 Verify the equation $F=BIL$
 Apply Fleming's left hand rule to a range of problems

Problems:

1) A short horizontal length of wire carrying a current is held in the gap between a pair of ceramic magnets on an Iron yoke placed on a top pan balance. When there is a current of 3.2A in the wire, the balance reading changes by 0.43g. If the length of the wire between the magnets is 40mm, calculate the magnetic flux density in the gap between the magnets.
