April 3rd
Buoyancy force FB=Mfg=FfVfg
$(Fnet)y = F_B - F_G = mfg - mog = GVfg - 96Vg = GVg - 9$
$\gamma$
$V_f = V_0 = V$ since the object is completely submerged in the field.
Submergent III the great.
Energy Conservation
Wext = AK + AU > change in potential energy
Work due change in kinetic energy
forces that Originate outside
of the system
$pA = force$ $\Delta K = \frac{1}{2} mv^2 = \frac{1}{2} (\varphi V) v^2$ $mgy = \varphi Vgy$
Work=J; F.d=
·
$\frac{1}{2} \rho V^2 + \rho g y + P = constant$
Blow on a strip of paper. The paper rises
Continuity: $\vee_1 A_1 = \vee_2 A_2$
$A_1 \longrightarrow A_2$

