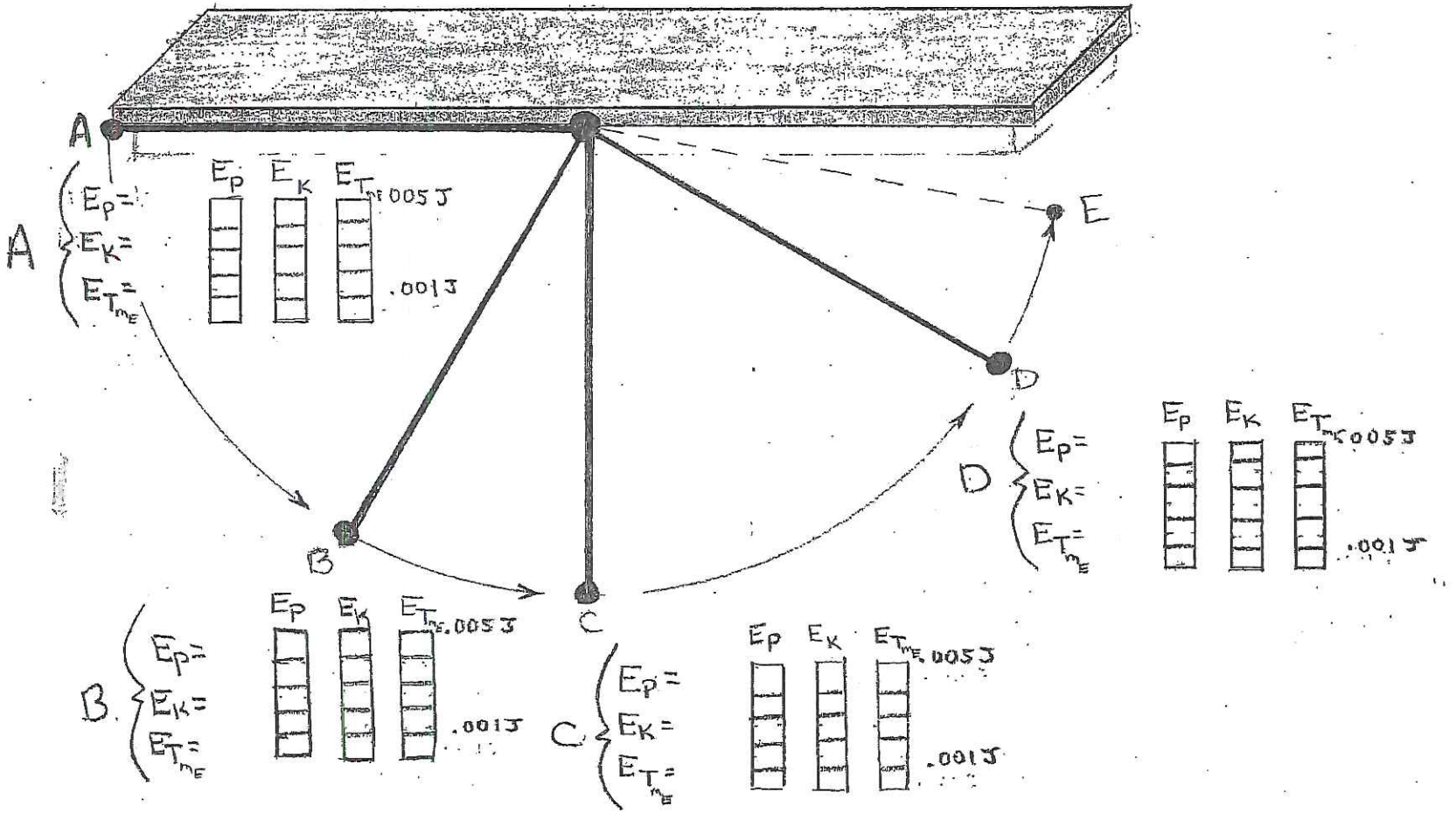
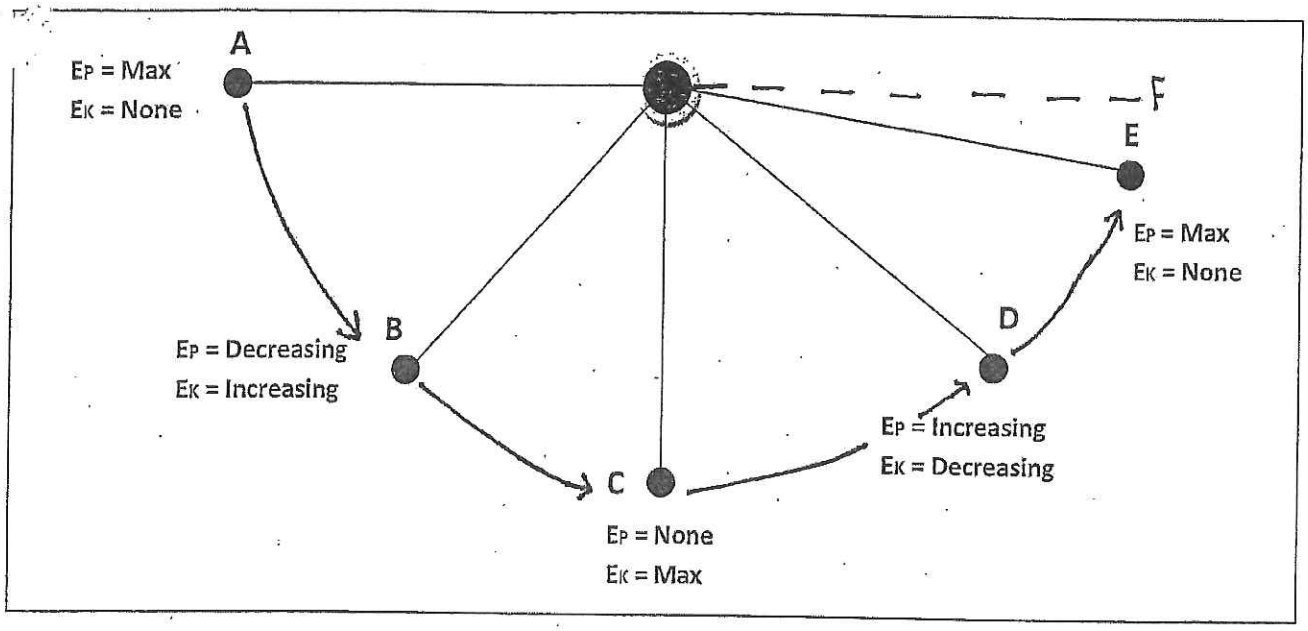
Pendulum Mass = .007 kg



Kinetic and Potential Energy



1. What is energy? The ability to cause change or do work
2. How does E_P differ from E_K?
   stored Moving
3. What does the Law of Conservation of Energy state?
   E. cannot be created nor destroyed
4. How is the Law of Conservation of Energy demonstrated by the movement of the Pendulum?
   Total Energy remains constant as Ep + Ek change
5. Describe the point at which the E_K of the pendulum is the highest.
   C (Lowest Pt.)
6. Describe the relationship between the E_K and the E_P of a swinging pendulum at their highest and lowest points.
   They are the "opposites" (highest Ek = Lowest Ep)
7. At what point in the pendulum's swing is its E_P the highest?
   A & C Highest Pt.
8. Why is it impossible for the pendulum to reach point F?
   Some E. is lost as thermal
9. Will the pendulum eventually stop? *Explain your answer in 3 sentences, remember energy is never created nor destroyed*

Yes, But Why?