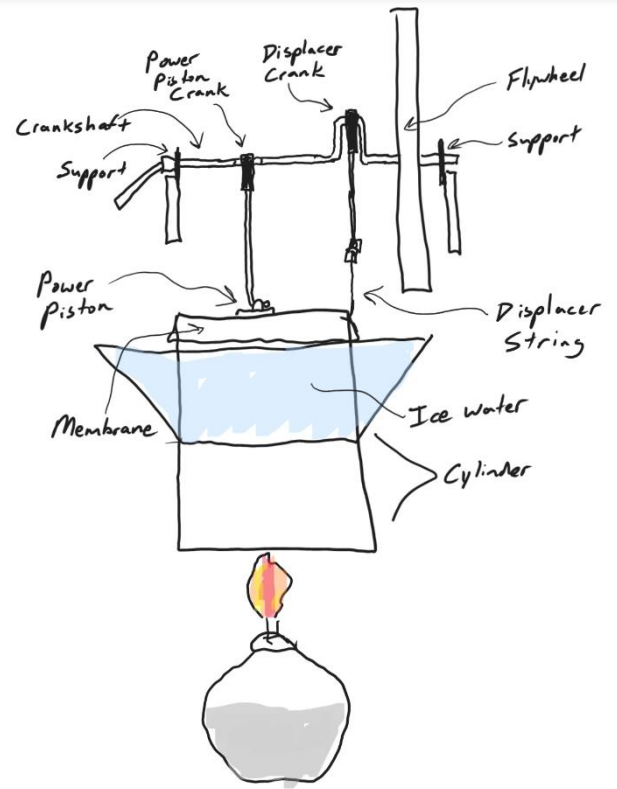


In diagram #1, on the right...

1. What is the position of the displacer crank?  
*Highest Point    Lowest Point    Middle*
2. Where in the cylinder is the displacer?  
*Top                  Bottom                  Middle*
3. Where is most of the air in the cylinder?  
*Top                  Bottom                  Middle*
4. What is happening to the motion of the air molecules in the cylinder?  
*Speeding up    Slowing Down    Nothing*
5. Why is this happening to the air molecules in the cylinder?
6. What is happening to the power piston?  
*It's being forced upward*  
*It's being forced downward*  
*It's not moving*
7. Why is this happening to the power piston?
8. What is happening to the mass of the air inside the cylinder?  
*Increasing    decreasing    No change*
9. Explain why this is happening to the mass?
10. What is happening to the volume of the air inside the cylinder?  
*Increasing    decreasing    No change*
11. Explain why this is happening to the volume of the air in the cylinder?
12. What is happening to the density of the air in the cylinder?  
*Increasing    decreasing    No change*
13. Explain why this is happening to the air's density.



In diagram #2 (on the right)...

14. What is the position of the displacer crank?  
*Highest Point    Lowest Point    Middle*
15. Where in the cylinder is the displacer?  
*Top                  Bottom                  Middle*
16. Where is most of the air in the cylinder?  
*Top                  Bottom                  Middle*
17. What is happening to the motion of the air molecules in the cylinder?  
*Speeding up    Slowing Down    Nothing*
18. Why is this happening to the air molecules in the cylinder?
19. What is happening to the power piston?  
*It's being forced upward*  
*It's being forced downward*  
*It's not moving*
20. Why is this happening to the power piston?
21. What is happening to the mass of the air inside the cylinder?  
*Increasing    decreasing    No change*
22. Explain why this is happening to the mass?
23. What is happening to the volume of the air inside the cylinder?  
*Increasing    decreasing    No change*
24. Explain why this is happening to the volume of the air in the cylinder?
25. What is happening to the density of the air in the cylinder?  
*Increasing    decreasing    No change*
26. Explain why this is happening to the air's density.

