**Poem About Thermodynamics**

Blogger tvant

(adapted from the original)

In physics there are laws one must obey.

The heat in an object won’t stay that way.

The environment: the system and what surrounds it,

The presence of walls are what bound it.

5 Diathermal provides no insulation but *wall that allows heat to pass, but not matter*

Adiabatic won’t allow exit. *wall that will not allow heat or matter to pass*

These principles are the source of my confliction,

As a student of science, learning them is my affliction.

How am I suppose to organize my thoughts,

10 Without a mind-map I am totally lost.

But since I’m responsible for my own education

Imma break it down for the entire nation.

Heat energy is always moving towards a state,

Of whose importance, you can’t abbreviate.

15 It occurs when two systems come into contact,

They are in thermal equilibrium if there is no impact,

On the temperature, so the Zeroth Law states:

Two systems in balance have signed their fate.

At this point I thought I was nearly done, but

20 Looking back it seems that I’ve hardly begun.

What happens when equilibrium is lost?

Why, too much pressure on adiabatic walls is the cost.

High internal energy demands to move from high to low,

Thermal’s Second Law says we can’t reverse that flow.

25 Thermodynamics attempts to explain it all,

How heat pushes and fights against the walls

High pressure has won and the walls go crazy

I hope this still isn’t hazy.

The bounds have burst and heat is free

30 Cool again and feeling a little lazy.

As scientists we appear to understand all the models,

So let’s head out and pop some bottles.

Finally, we’ve reached our culmination,

Was it easy? No!

35 I resent the accusation.

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Reread lines 5-6 and answer the following questions.

1. Identify what *diathermal* and *adiabatic* mean.

Diathermal: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Adiabatic: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What type of wall is present in the heat system described by stanza three? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What type of wall is present in the heat system described in stanza four? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Which type of wall does a popcorn kernel have? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. In stanza four, at what point is a kernel in the popping process?
   1. The kernel has not been put under heat yet
   2. The kernel is popped and cool
   3. The kernel is heating up, but not yet popped
5. In stanza five, at what point is a kernel in the popping process?
   1. The kernel has not been put under heat yet
   2. The kernel is popped and cool
   3. The kernel is heating up, but not yet popped
6. In lines 16 and 21, what does the word *equilibrium* mean?

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What context clues did you use to determine its meaning?

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1. In line 33, what does the word *culmination* mean?

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What context clues did you use to determine its meaning?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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