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| Energy and Phase Change  East.H.S. ©λ€M|5+rγ  visit http://genest.weebly.com |  | Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  The test is this Friday. What’s on it? See the class website. |

Complete the energy diagrams in the way we did in class.

Example:

|  |  |
| --- | --- |
| *Draw bar graphs and an arrow and circle to describe the energetic changes for a cup of hot coffee, sitting on a table.* | |
|  | (Notice that the number of squares in circle arrow matches the number of squares coming or going between the two bar graphs) |
| |  |  |  | | --- | --- | --- | | *initial:* |  | *final:* | |  |  |  | | |

1. Some water you spilled on your shirt evaporates.



In words and/or drawings describe how the arrangement and motion of the molecules change from the initial to the final state:

|  |  |  |
| --- | --- | --- |
| *initial:* |  | *final:* |

2. Water vapor in the room condenses on a cold surface



In words and/or drawings describe how the arrangement and motion of the molecules change from the initial to the final state:

|  |  |  |
| --- | --- | --- |
| *initial:* |  | *final:* |

3. A pan of water (25˚C) is heated to boiling and some of the water is boiled away. Do separate energy bar charts for each stage of the process.





In words and/or drawings describe how the arrangement and motion of the molecules change from the initial to the final state:

|  |  |  |
| --- | --- | --- |
| *initial:* |  | *final:* |