**The Chemistry Carol: In Review**

Name (your name…not the lab):

- This is a brief outline of what’s required. This assignment is worth 30 pts.

Procedure:

You need to recount the general steps that you used to determine the identity of solutions. Do not include results and observations as part of the procedure! (4 pts according to the following rubric: 4 pts- complete procedure with explanations for all steps; 3 pts- complete procedure with some explanation for some steps; 2 pts- complete procedure with few (or no explanation); 1 pt- incomplete procedure; 0 pt- nothing)

Data/Observations:

In chart form, list all the observations made during the lab. ( 4 pts according to the following rubric: 4 pts- all observations noted in table format/match procedure; 3 pts- most observations noted with sentence format/match procedure; 2 pts- observations listed but no order or consistency; 1 pt- some observations missing and doesn’t match procedure; 0 pt- none listed) You will have to design some table to show your data and observations.

Conclusions/Results:

Follow this format…see attached pages

Test tube Solution Logic- what causes you to think this is so. ( 11 pts for each solution correctly identified. 11 pts for logical reasoning.)

The Chemistry Carol

By:

**Procedure:** Answer the questions, *“What did you do?” and “Why did you do it?”*

*Example: We tested the density of each solution by measuring the mass of 10.0 mls and applying the density formula- d =m/v. We did this because we know water’s density is 1.0 g/mL.)*

Data/Observations: (List, in table form, the observations and data collected.)

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| --- | --- | --- | --- | --- | --- | --- |
| Solution | A | B | C | D | E | F |
| Appearance |  |  |  |  |  |  |
| Solution | G | H | I | J | K | X |
| Appearance |  |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- |
| Solution | A | B | C | D | E | F |
| pH |  |  |  |  |  |  |
| Solution | G | H | I | J | K | X |
| pH |  |  |  |  |  |  |

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| Solution | A | B | C | D | E | F |
| Conductivity |  |  |  |  |  |  |
| Solution | G | H | I | J | K | X |
| Conductivity |  |  |  |  |  |  |

Reaction of Mixtures

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **A** | **B** | **C** | **D** | **E** | **F** | **G** | **H** | **I** | **J** | **K** |
| **A** | X |  |  |  |  |  |  |  |  |  |  |
| **B** |  | X |  |  |  |  |  |  |  |  |  |
| **C** |  |  | X |  |  |  |  |  |  |  |  |
| **D** |  |  |  | X |  |  |  |  |  |  |  |
| **E** |  |  |  |  | X |  |  |  |  |  |  |
| **F** |  |  |  |  |  | X |  |  |  |  |  |
| **G** |  |  |  |  |  |  | X |  |  |  |  |
| **H** |  |  |  |  |  |  |  | X |  |  |  |
| **I** |  |  |  |  |  |  |  |  | X |  |  |
| **J** |  |  |  |  |  |  |  |  |  | X |  |
| **K** |  |  |  |  |  |  |  |  |  |  | X |

**Analysis:** What are your results, and why.

Solution A is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. We know this because…

Solution B is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. We know this because…

Solution C is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. We know this because…

Solution D is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. We know this because…

Solution E is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. We know this because…

Solution F is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. We know this because…

Solution G is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. We know this because…

Solution H is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. We know this because…

Solution I is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. We know this because…

Solution J is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. We know this because…

Solution K is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. We know this because…

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| --- | --- | --- |
| Label | Solution | Logic/Reasoning |
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