| Name: Mr. Haupt | _ Mr. Hauptman - Chemistry [| | | | [| Date: |
|--|------------------------------|---|---|---|----|---------------------------------------|
| Winter Break Optional Assignment - Due: Monday, January 5, 2015 | | | | | | |
| (5 point penalty per day it is late) Essential Question: How can we understand patterns and trends on the Periodic Table? | | | | | | |
| | | | | | | |
| Graph paper is preferred but not required. | | | | | | |
| | | | | | | |
| I. GRAPH: Atomic Radius versus Period 3 Elements | 1. | | - | | | |
| List elements & their atomic radii | 0 | 1 | 2 | 3 | 4 | All elements listed with Atomic Radii |
| Graph data | 0 | 1 | 2 | 3 | 4 | Data plotted accurately and neatly |
| Appropriate scales | 0 | 1 | 2 | 3 | 4 | Axes labeled with correct units |
| Graph Title | 0 | 1 | 2 | 3 | 4 | Accurately describes graph |
| Trend | 0 | 1 | 2 | 3 | 4 | Trend stated correctly |
| Explanation | 0 | 1 | 2 | 3 | 4 | Fully explains why trend occurs |
| Total | 0 | | | | 24 | Full credit |
| II. GRAPH: Atomic Radius versus Group 2 Elements | | | | | | |
| List elements & their atomic radii | 0 | 1 | 2 | 3 | 4 | All elements listed with Atomic Radii |
| Graph data | 0 | 1 | 2 | 3 | 4 | Data plotted accurately and neatly |
| Appropriate scales | 0 | 1 | 2 | 3 | 4 | Axes labeled with correct units |
| Graph Title | 0 | 1 | 2 | 3 | 4 | Accurately describes graph |
| Trend | 0 | 1 | 2 | 3 | 4 | Trend stated correctly |
| Explanation | 0 | 1 | 2 | 3 | 4 | Fully explains why trend occurs |
| Total | 0 | 1 | |) | 24 | Full credit |
| Total | U | | | | 24 | ruii credit |
| III. GRAPH: Ionization Energies versus Period 3 Elements | | | | | | |
| List elements & their atomic radii | 0 | 1 | 2 | 3 | 4 | All elements listed with Atomic Radii |
| Graph data | 0 | 1 | 2 | 3 | 4 | Data plotted accurately and neatly |
| Appropriate scales | 0 | 1 | 2 | 3 | 4 | Axes labeled with correct units |
| Graph Title | 0 | 1 | 2 | 3 | 4 | Accurately describes graph |
| Trend | 0 | 1 | 2 | 3 | 4 | Trend stated correctly |
| Explanation | 0 | 1 | 2 | 3 | 4 | Fully explains why trend occurs |
| Total | 0 | | | | 24 | Full credit |
| | | | | | | |
| IV. GRAPH: Ionization Energies versus Group 2 Elements | | | | | | |
| List elements & their atomic radii | 0 | 1 | 2 | 3 | 4 | All elements listed with Atomic Radii |
| Graph data | 0 | 1 | 2 | 3 | 4 | Data plotted accurately and neatly |
| Appropriate scales | 0 | 1 | 2 | 3 | 4 | Axes labeled with correct units |
| Graph Title | 0 | 1 | 2 | 3 | 4 | Accurately describes graph |
| Trend | 0 | 1 | 2 | 3 | 4 | Trend stated correctly |
| Explanation | 0 | 1 | 2 | 3 | 4 | Fully explains why trend occurs |
| Total | 0 | | | | 24 | Full credit |
| | | | | | | |
| V. THIS SHEET on MAIN COVER SHEET | 0 | | 2 | | 4 | This should be very 1st ness. |
| V. THIS SHEET as your COVER SHEET | 0 | | 2 | | 4 | This should be your 1st page |
| | | | | | | |
| Total grade: | | | | | 7 | |
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