

**Table 2: Observations from reactions in the copper cycle**

|   | Reaction                                 | Observations                                                |
|---|------------------------------------------|-------------------------------------------------------------|
| 1 | $\text{Cu} + \text{HNO}_3$               | Copper bubbles after about 20 s blue darkens                |
| 2 | $\text{Cu}(\text{NO}_3)_2 + \text{NaOH}$ | It becomes darker and thicker<br>It starts to turn to black |
| 3 | $\text{Cu}(\text{OH})_2 + \text{heat}$   | It turns to black                                           |
| 4 | $\text{CuO} + \text{H}_2\text{SO}_4$     | It turns to light blue                                      |
| 5 | $\text{CuSO}_4 + \text{Zn}$              | The water becomes light and the pieces becomes red          |

**Report:** A template for the report is provided on Canvas. Be sure to follow the instructions in the template for each section of the report.

Copper bubbling

1) after about 20 s starts to turn blue  
blue darkens

Orange / Brown

2) It becomes darker and thicker  
It starts to turn to black

3) It turns to black

4) It turns to <sup>light</sup> blue

5) The water becomes light  
and the pieces becomes red