

Name:

Date:

Block:

**Activity:** \_\_\_\_\_

Purpose

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Materials & Apparatus

Refer to BC Science 10 page 198.

Procedure

Refer to BC Science 10 page 198.

Observations

Table 1      Observations from mixing ionic compounds.

|                                          | Observation after Sodium Hydroxide (NaOH) added | Colour of each solid | Colour observation for flame test of solutions soaked into splints | Flame test Of Solids |
|------------------------------------------|-------------------------------------------------|----------------------|--------------------------------------------------------------------|----------------------|
| SrCl <sub>2</sub><br>(Sr <sup>+2</sup> ) |                                                 |                      |                                                                    |                      |
| CaCl <sub>2</sub><br>(Ca <sup>+2</sup> ) |                                                 |                      |                                                                    |                      |
| CuCl <sub>2</sub><br>(Cu <sup>+2</sup> ) |                                                 |                      |                                                                    |                      |
| NaOH<br>(Na <sup>+</sup> )               | N/A                                             | N/A                  |                                                                    | N/A                  |

### Discussion Questions

2. How did the flame colours of the solutions compare with the flame colours of the solids?

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### Conclusion

1. Try predicting the names of the new compounds produced by recombining the names of the starting compounds in each test tube.

Test Tube A: Strontium chloride + Sodium hydroxide ----> \_\_\_\_\_

Test Tube B \_\_\_\_\_

Test Tube C \_\_\_\_\_

2. Predict the formula of the solids made in each of the three test tubes by comparing the flame test results for each solution with the flame test of each solid.

Test Tube A \_\_\_\_\_

Test Tube B \_\_\_\_\_

Test Tube C \_\_\_\_\_