

## Escape Room EDU Teacher Instructions



Print out all of the level cards



Make copies of the recording sheet for each student or group

- Print answer key to check student answers



Digital Escape room: <a href="http://bit.ly/2mZH2vc">http://bit.ly/2mZH2vc</a>



<u>Click here</u> for a Force copy of the Google Form. You will be able to change the settings to collect student responses (e-mails).



**Escape Room for Teams:** 

Version 1: Place each level at different stations – Requires each team to cycle at predetermined times

Version 2: Place all levels at each station – Requires students to remain at one station



**Escape Room for Individual Students:** 

- Each student receives all levels



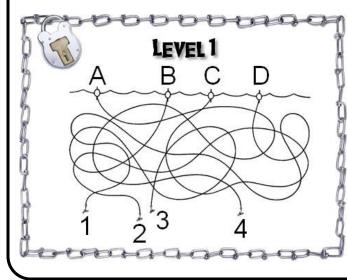
# Escape Room EDU Decoding the Puzzles



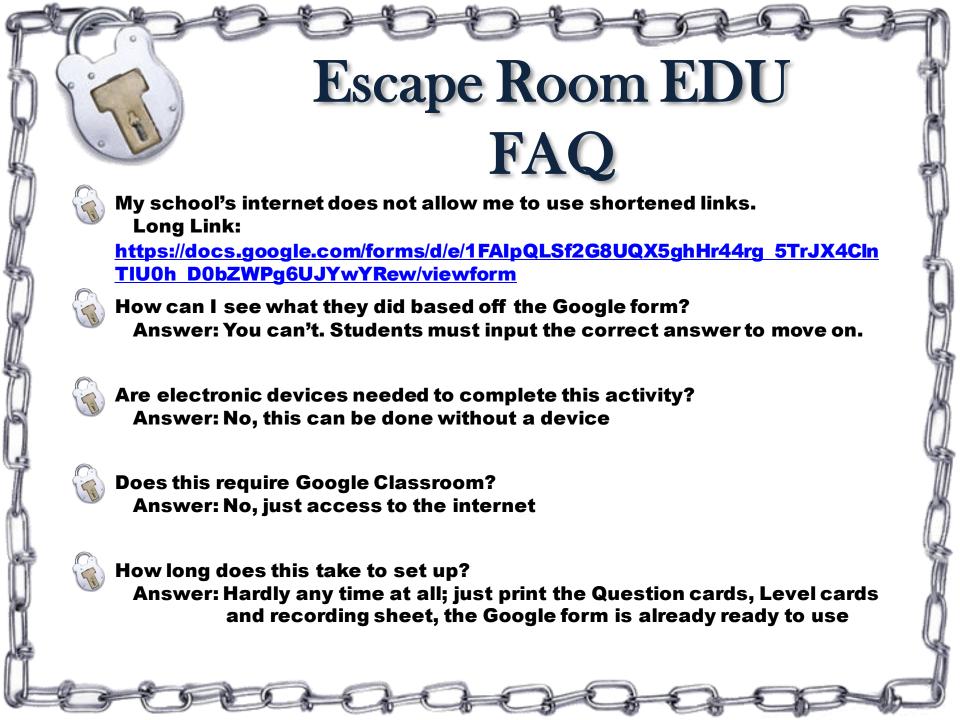
**How to solve Level 1** 

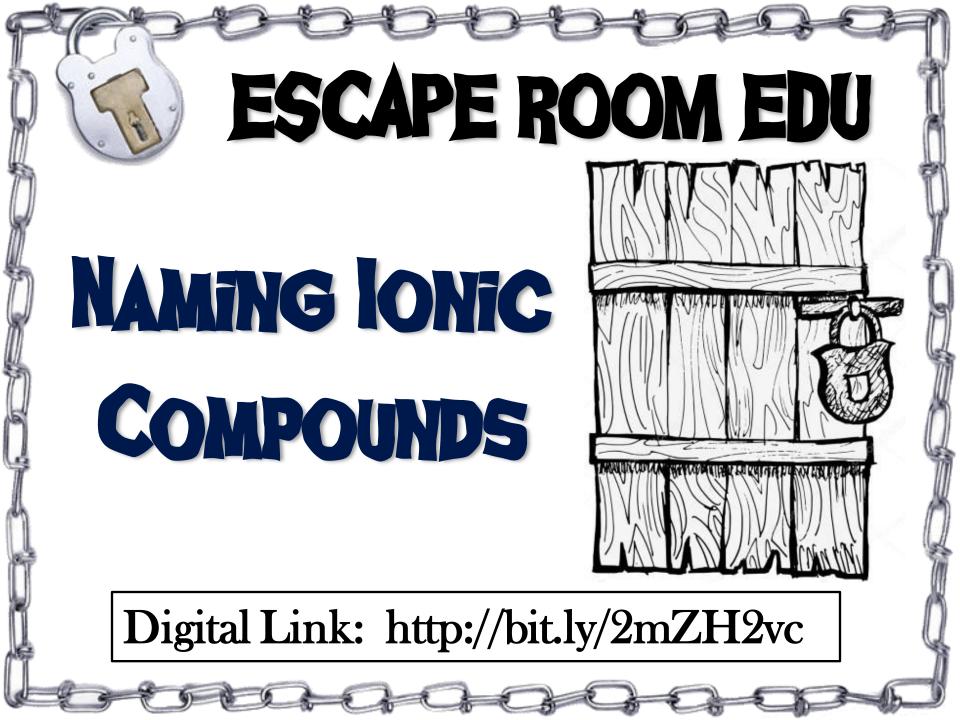


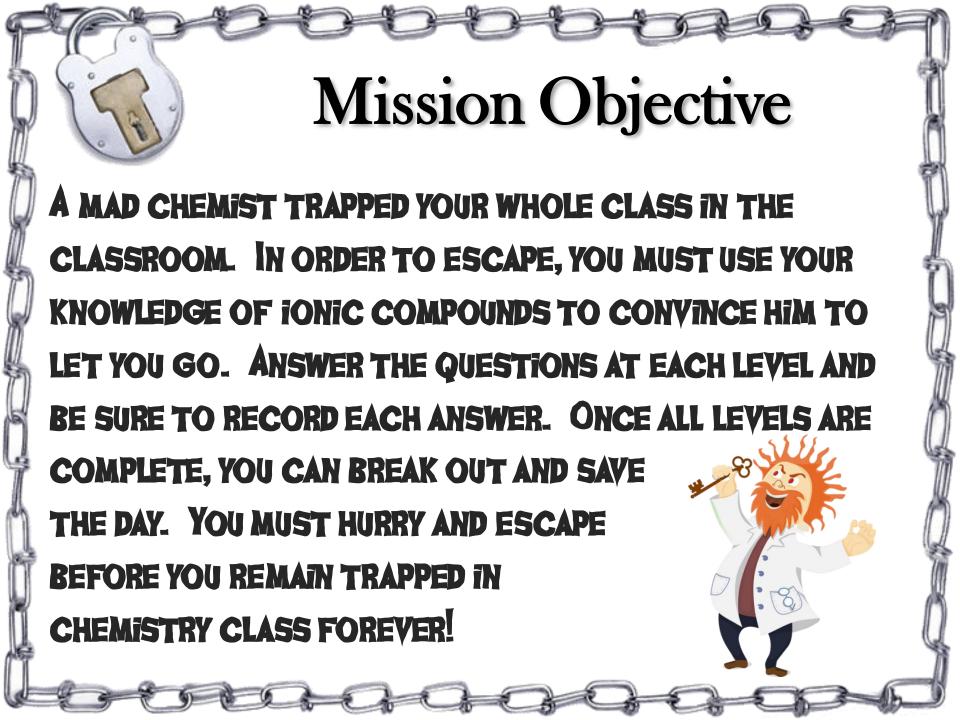
Students first solve the answer to the 4 multiple choice questions Students then use the A, B, C, D answers with the decoder for that level

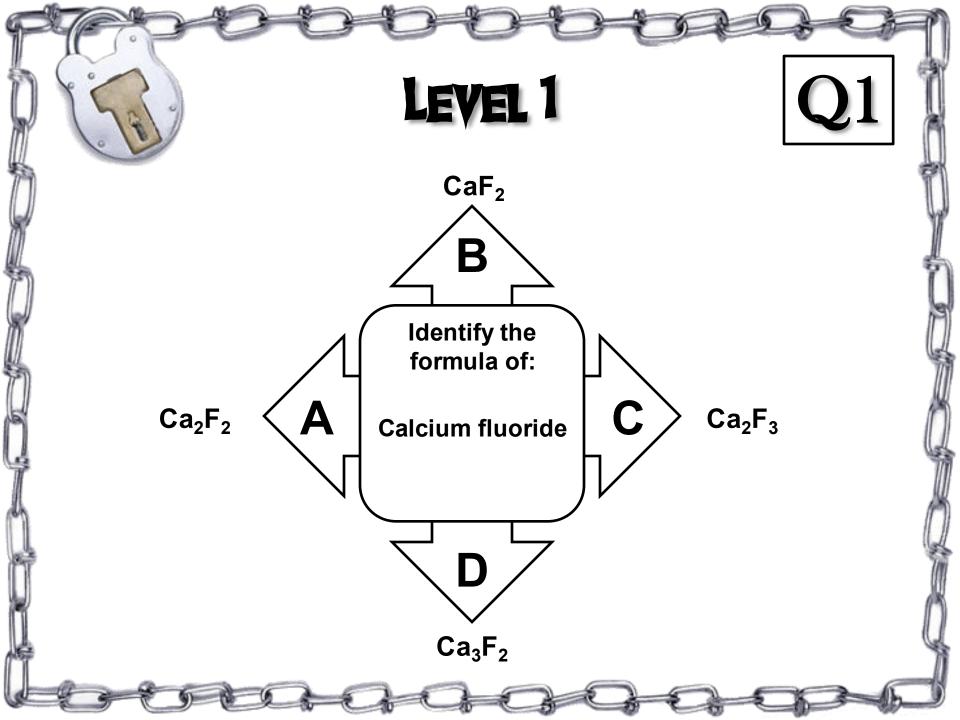


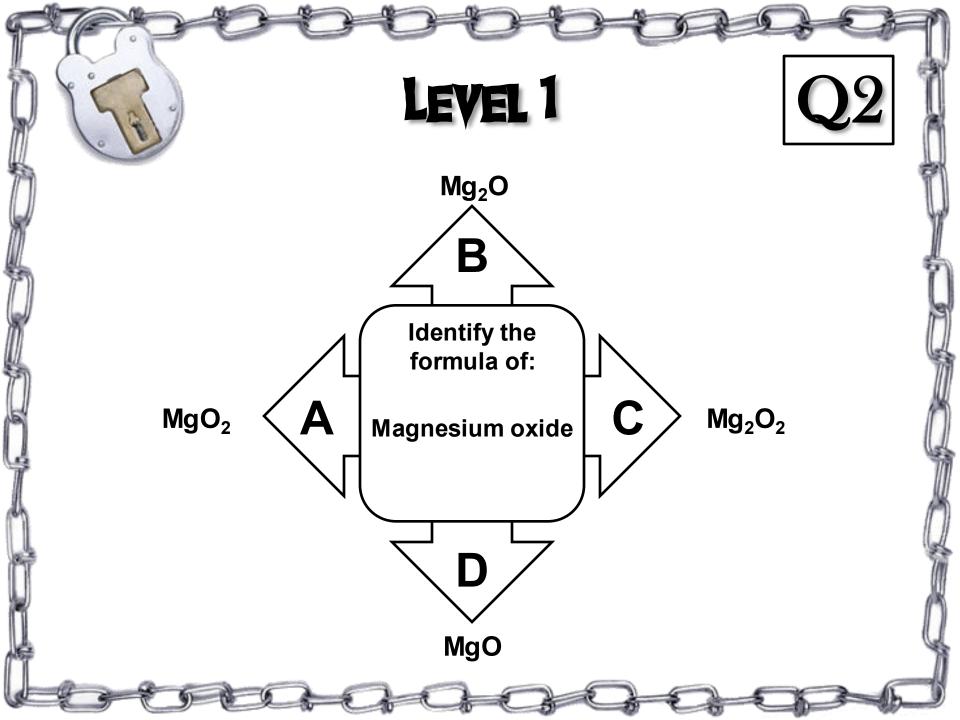
- -The answers to level 1, in order, are BDAC
- Using these answers with the Level 1 puzzle:
  - B leads to 3
  - D leads to 1
  - A leads to 4
  - C leads to 2
- If you put these in the same order it becomes 3142, which is the code for level 1.

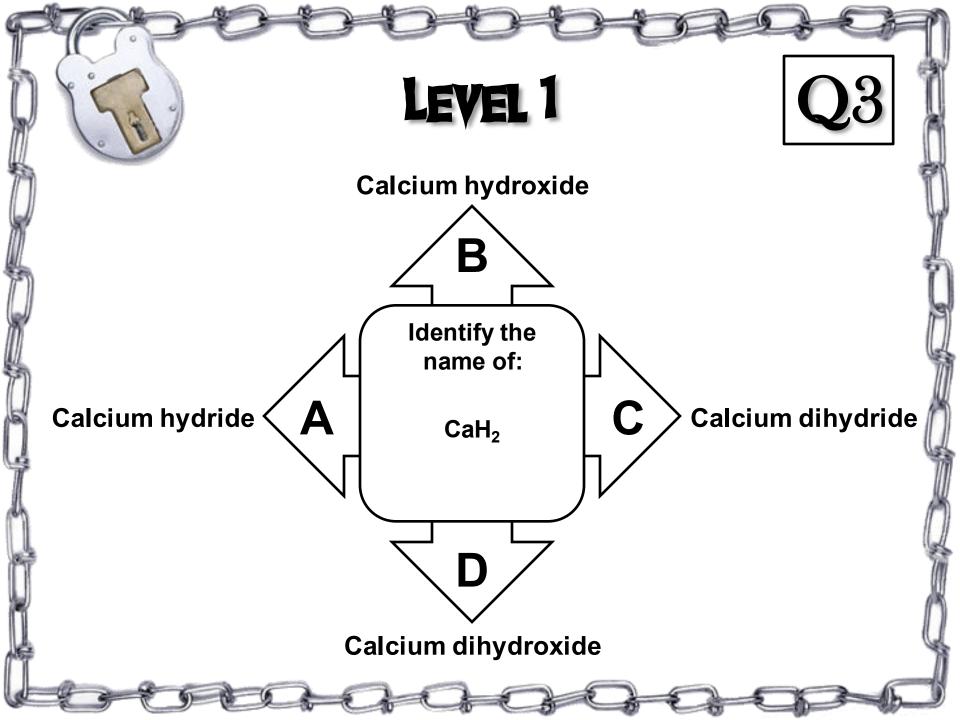


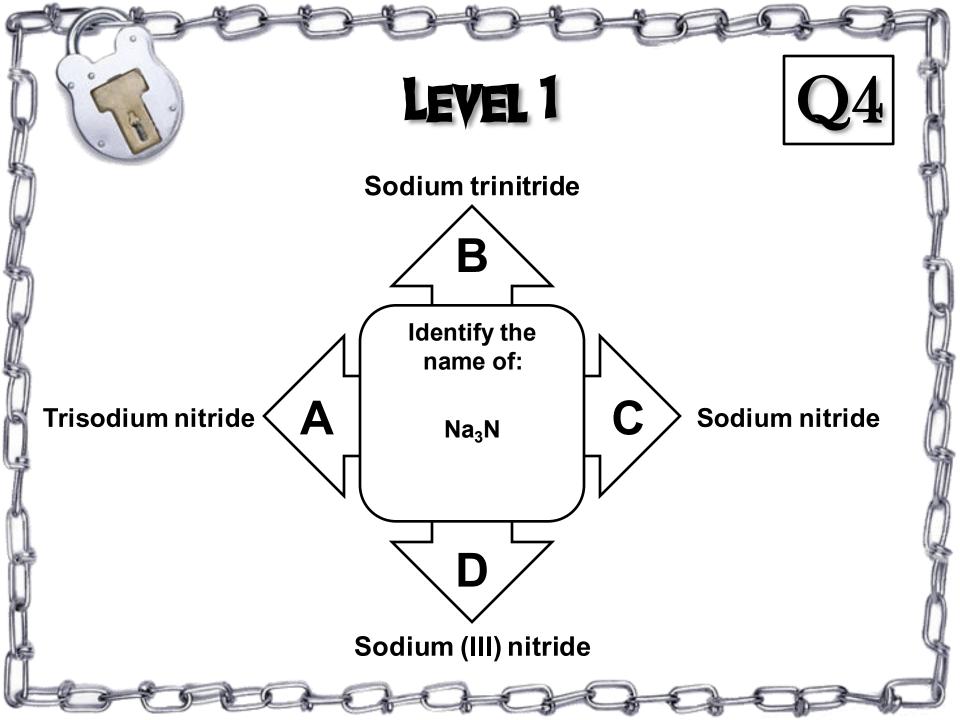


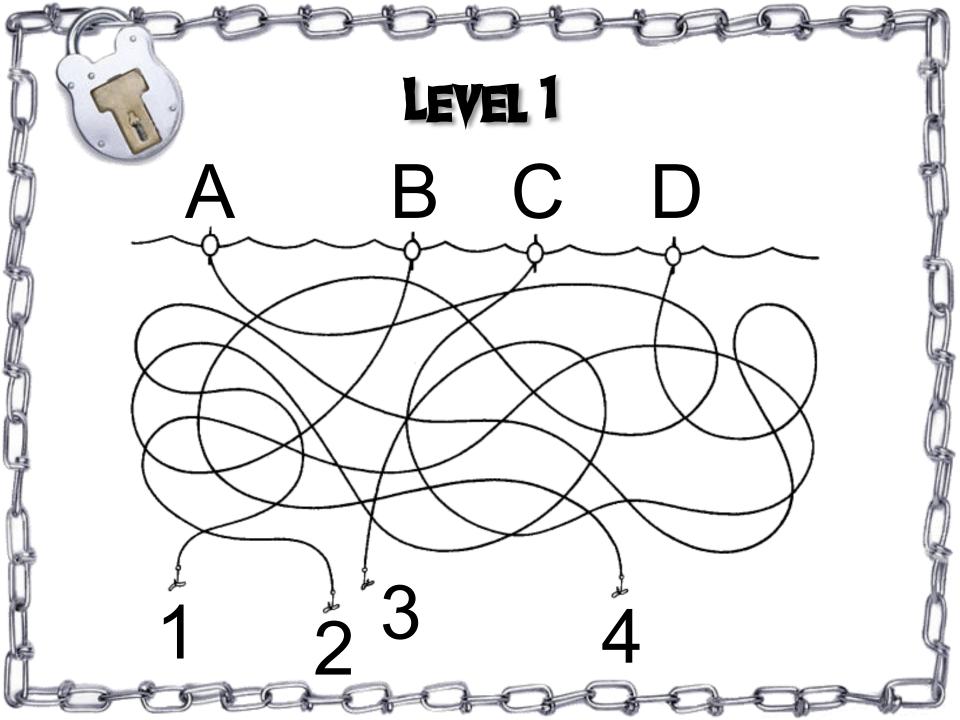


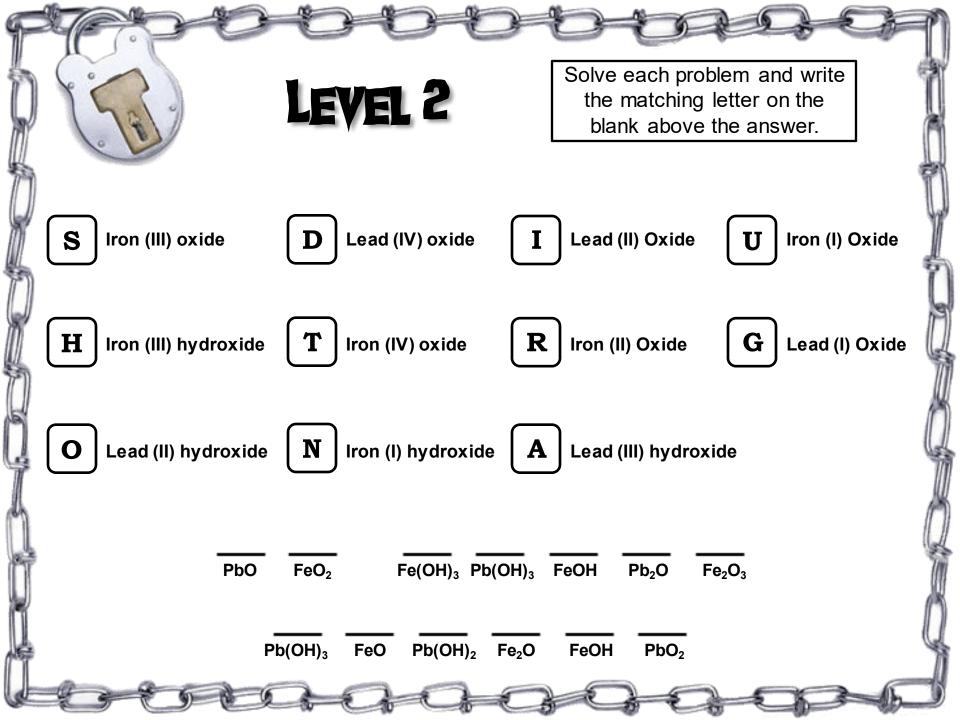


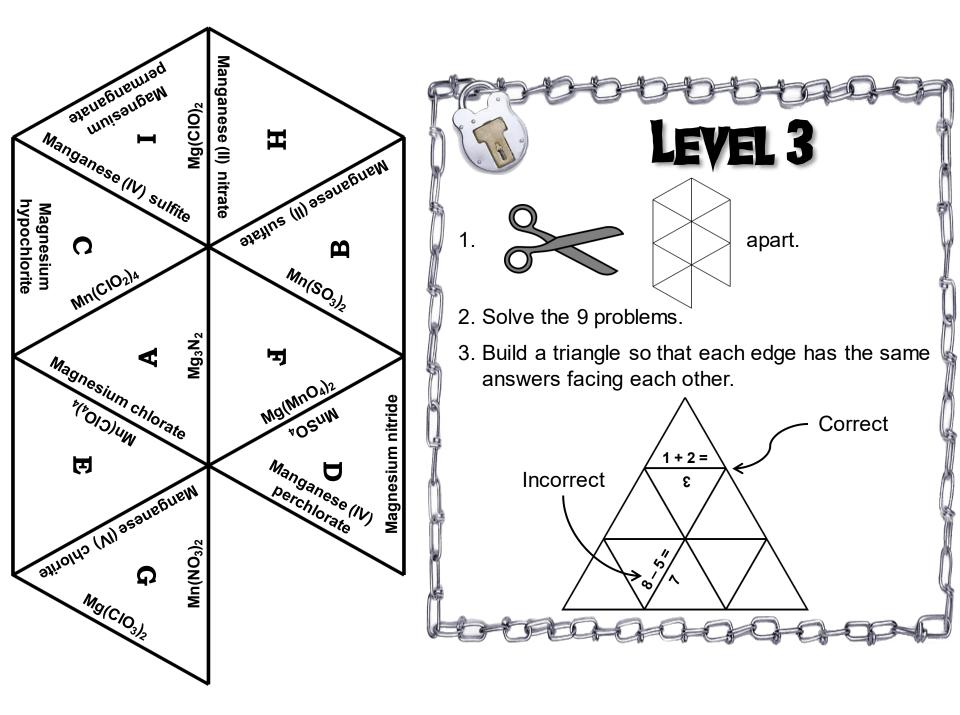


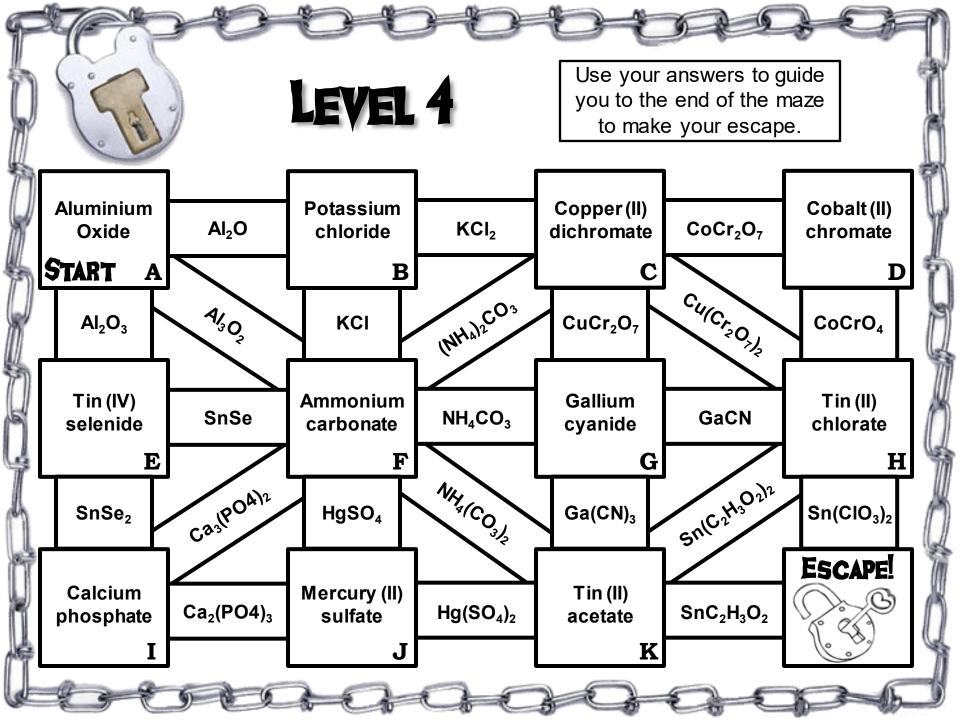


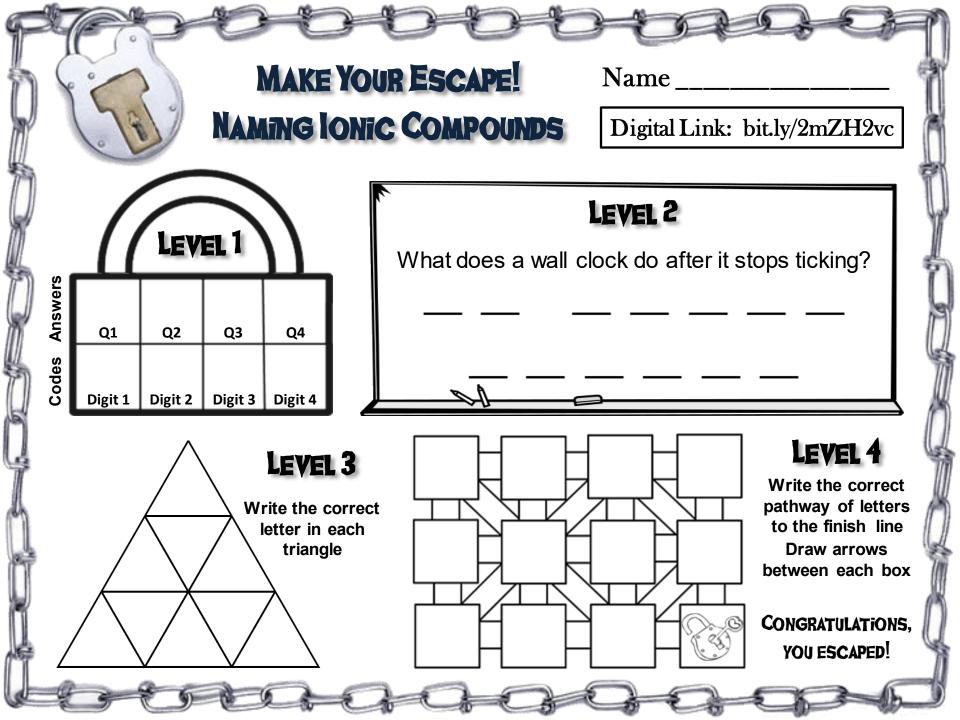


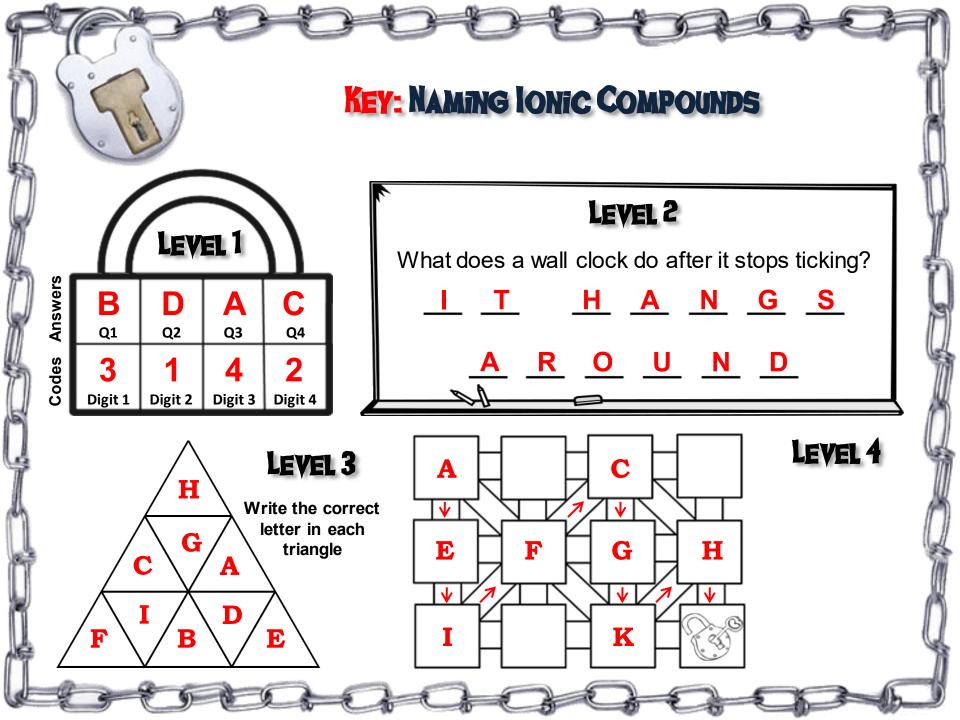




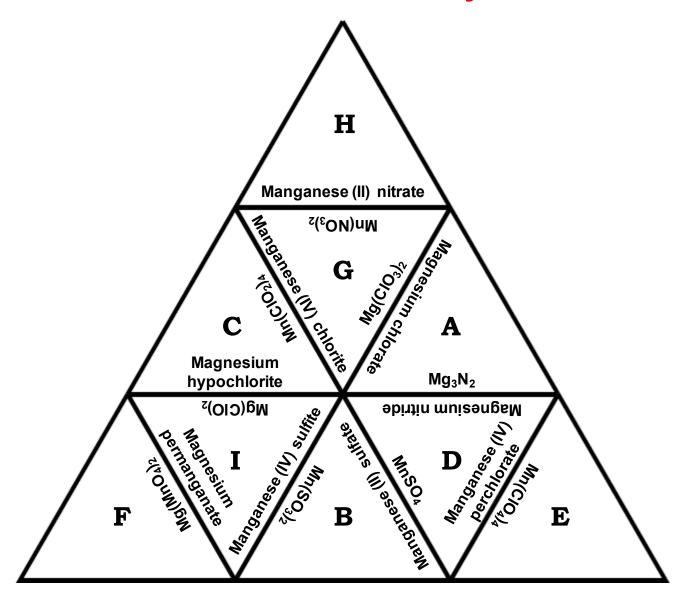


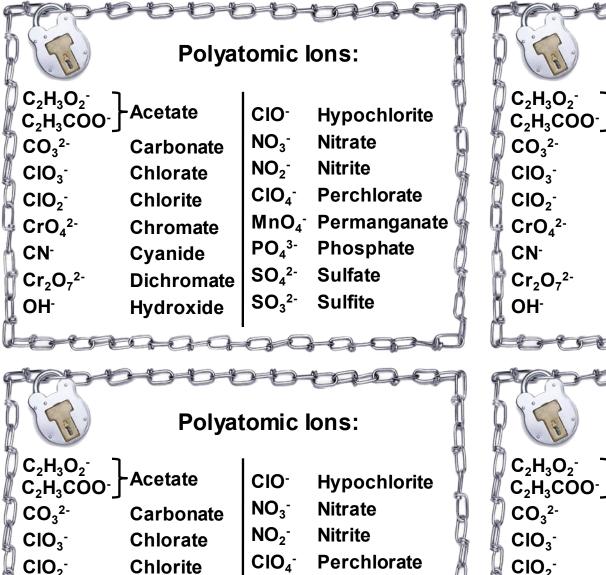






### Tarsia Puzzle Key





MnO<sub>4</sub>- Permanganate

**Sulfate** 

**Sulfite** 

**Phosphate** 

PO<sub>4</sub>3-

SO<sub>4</sub><sup>2</sup>-

SO<sub>3</sub><sup>2-</sup>

CrO<sub>4</sub><sup>2</sup>-

 $Cr_2O_7^{2-}$ 

CN-

OH-

Chromate

**Dichromate** 

**Hydroxide** 

Cyanide

#### **Polyatomic lons:** -Acetate CIO-**Hypochlorite** C<sub>2</sub>H<sub>3</sub>COO-NO<sub>3</sub>-**Nitrate** Carbonate $NO_2^-$ **Nitrite Chlorate** CIO<sub>4</sub>-**Perchlorate Chlorite** MnO<sub>4</sub>- Permanganate **Chromate** PO<sub>4</sub>3-**Phosphate** Cyanide SO<sub>4</sub><sup>2</sup>-**Sulfate Dichromate** SO<sub>3</sub><sup>2</sup>-**Sulfite Hydroxide**



CrO<sub>4</sub><sup>2</sup>-

 $Cr_2O_7^{2-}$ 

CN-

OH-

-Acetate

Carbonate

Chlorate

**Chlorite** 

Chromate

#### **Polyatomic lons:**

CIO-

**Hypochlorite**  $NO_3$ **Nitrate** NO<sub>2</sub>-**Nitrite** CIO<sub>4</sub>-

**Perchlorate** MnO<sub>4</sub>- Permanganate **Phosphate** 

PO<sub>4</sub>3-Cyanide SO<sub>4</sub><sup>2</sup>-**Sulfate Dichromate** SO<sub>3</sub><sup>2</sup>-**Sulfite Hydroxide**