

## Review Stations – Atomic Structure

### Station 1:

Observe the example of a continuous light spectrum on your table. How do you think it is formed? What is the light source?

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### Station 2:

Look at the electron configuration at your station and answer the following questions:

- i) Which ground state atom does this belong to?
  
  
  
  
  
  
  
  
  
  
- ii) Name two ions that could occupy the electron configuration
  
  
  
  
  
  
  
  
  
  
- iii) How many orbitals are in the 3<sup>rd</sup> energy level?

### Station 3:

Draw the Lewis Dot diagram for the molecule at your station.

How many lone pairs does this molecule have around its central atom? \_\_\_\_\_

State the and draw the molecular shape this element makes: \_\_\_\_\_

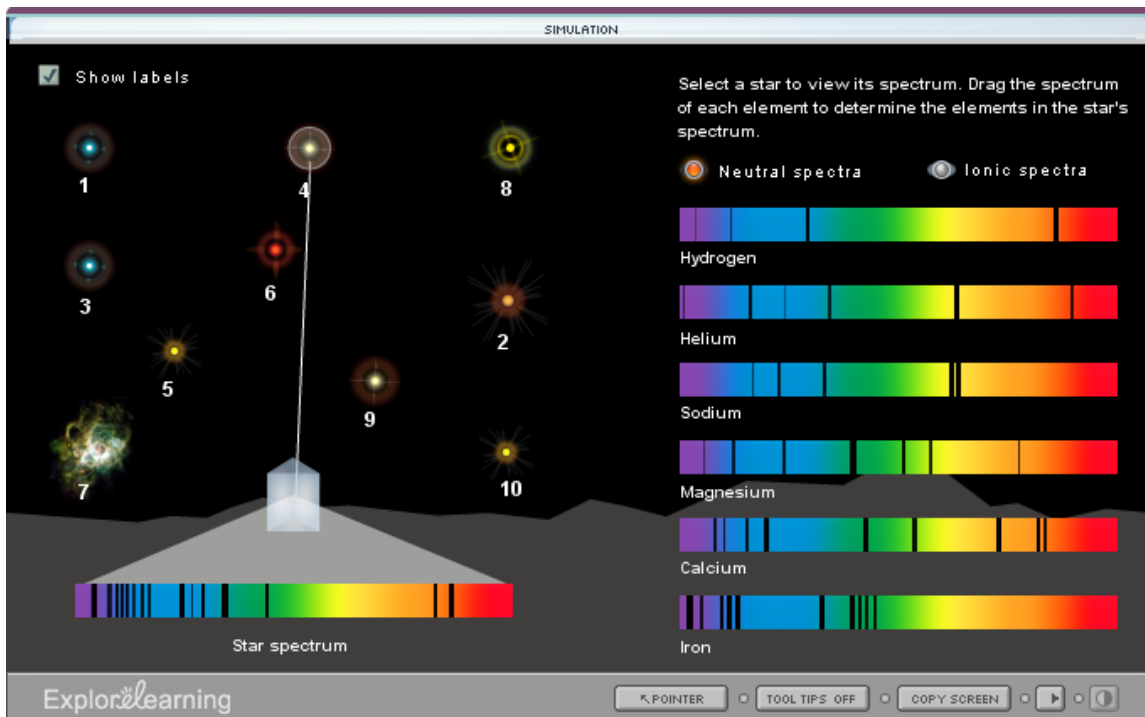
**Station 4:**

Observe the simulation at your computer station. Identify the elements in the stars identified below using both the neutral spectrum and ionic spectrum:

Star 1: \_\_\_\_\_

Star 3: \_\_\_\_\_

Star 4: \_\_\_\_\_



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