## Analysis Activity **ATOM FORMATION**

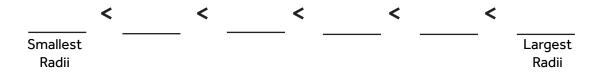
## **Directions:**

1. Log into Collisions and navigate to the Atoms Game.

- 2. Play the Tutorial levels, if you haven't done so already.
- 3. Exit the levels and enter the Atoms Sandbox. 👫
- 4. Build each atom listed in the table below based on the proton # provided and record the requested information.

Atomic Number	2	7	12	15	9	16
Proton #	2					
Electron #	2					
# of energy levels	1					
# of valence electrons	2					
Electron Configuration	15 <sup>2</sup>					
Atomic symbol	He					
Element name	Helium					

Order the atoms above from smallest to largest atomic radii by placing atomic symbols on the lines below.





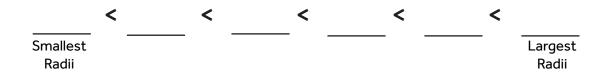
Name: \_\_\_\_\_

## Analysis Activity **ATOM FORMATION**



Atomic Number	20	10	30	5	26	35
Proton #						
Electron #						
# of energy levels						
# of valence electrons						
Electron configuration						
Atomic symbol						
Element name						

Order the atoms above from smallest to largest atomic radii by placing atomic symbols on the lines below.



## **Summary Questions:**

1. Using a periodic table and the information collected above , describe the trend in atomic size across a row.

2. Using a periodic table and the information collected above, describe the trend in atomic size down a period.