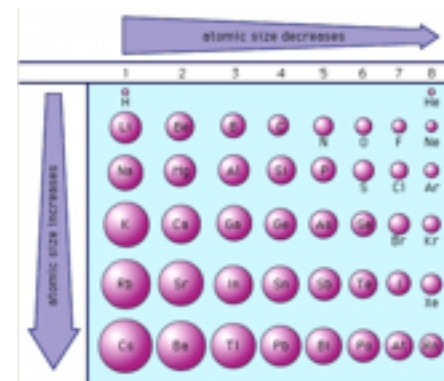# EXPLAINING THE PERIODIC TRENDS PROJECT

Create a product that shows your understanding!

Your job: Create some sort of product (comic, poster, illustration, keynote, explain everything, iMovie, picture book, etc) that shows that you understand how coulombic attraction affects the trend/ patterns that we have been exploring on the Periodic Table.

Your product should be accurate, informative, complete, and show that you know what you're talking about. You should use data (graphs and actual data for different atoms), models (graphs, diagrams, 3D models, analogies etc), and explanations (verbal and/or written) to demonstrate your understanding.

Criteria	Distinguished (100%)	Proficient (90%)	Approaching (80)%	Limited (60%)
Using data as support for coulombic attraction's affect on Trends in the Periodic Table	☐ Analysis links concept to a real world application or possible future study beyond the classroom.	☐ Use data to make and support valid and reliable claims, predictions, and/or determine optimal design solution.	☐ Misconceptions or omissions affect the analysis of data from tools, technologies, and/or model (graphs, calculations, etc).	☐ Analysis of data shows lack of understanding and negatively impacts the validity and reliability of the scientific claim being made.
Using models to illustrate coulombic attraction on trends in the Periodic Table	☐ Develops a model based on evidence covered in class as well as documented outside research to help explain a real world application.	☐ Develops, revises and/or uses a model based on evidence to illustrate and/ or predict relationships between systems or components of a system. ☐ Develops a rich and accurate explanation of how different components or parts of a system are related.	☐ Attempts to develop, revise and/ or use a model based on evidence to illustrate and/ or predict relationships between systems or components of a system. ☐ Conveys some understanding of the relationships between component parts of a system, but their specific use of language is simplistic or vague.	☐ Attempts unsuccessfully to develop, revise, and/ or use a model.

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| Using Scientific Language Appropriately | ☐ Explanations of the data and models used enhance the clarity or the project.

 ☐ Uses language that is scientifically accurate and convoys a deep understanding of the topic. | ☐ Explain how the use of data and models explain how periodic trends work.

 ☐ Uses language that is scientifically accurate and reflects mastery of the concept. | ☐ Misconceptions or omissions affect the explanation for how the use of data and models explain how periodic trends work.

 ☐ Uses language that lacks accuracy and/or indicates limited or partial mastery of the concept. | ☐ Explanations of data and models lack understanding and negatively impact the description of how periodic trends work.

 ☐ Uses language that lacks accuracy and does not indicate mastery of the concept. |