

Have your team Presenter record your answers to the specified Week 6 Discussion Worksheet questions in the appropriate spaces below.

Once your team has finished the Week 6 Discussion Worksheet (Parts 1 and 2), read the answers of your assigned team (identified in the tables below) and determine whether or not the argument presented would be considered a strong, valid argument.

<b>Question 5: In your own words, define “Domain;” your definition should not be copied from the dictionary.</b>	
<b>Team Strawberries</b>	Domain: An area that something occupies
<b>Team Dogs</b>	Domain: area where something resides
<b>Team Thriller</b>	Domain: an area under the realm of influence of another entity.
<b>Team Chris Evans</b>	Domain is the area in which something lies
<b>Team Ramen</b>	Various areas where something/someone has control over.

<b>Team Strawberries</b>	<b>Question 10: Why should different electron domains be as far apart as possible?</b> Take the evidence, claims, and conclusion you outlined in the table and construct a succinct argument (no more than six sentences).	
	Team Answer	Reflections (done by Team Ramen)
	Electron domains have a negative charge and repel each other. Since electrons in an atom are bound to the nucleus and must remain around each other, they are placed as far apart as possible to minimize repulsion and the potential energy. According to Coulomb's Law, As r increases, potential energy decreases, stabilizing the atom. Therefore different electron domains should be placed as far apart as possible.	<p><b>Identify the evidence, claims, and conclusions presented in the argument.</b></p> <p><b>Evidence:</b> As r increases, potential energy decreases, stabilizing the atom. Electron domains have a negative charge and repel each other.</p> <p><b>Claims:</b> Since electrons in an atom are bound to the nucleus and must remain around each other, they are placed as far apart as possible to minimize repulsion and the potential energy.</p> <p><b>Conclusions:</b> Therefore different</p>

		electron domains should be placed as far apart as possible.
		<b>Do you consider this to be a strong, valid argument? Why or why not?</b>
		We feel like the claim was sandwiched between pieces of evidence, which doesn't necessarily follow the structure of the worksheet. However, your argument has sufficient evidence and a well-explained claim, making it a strong argument. Great work!

<b>Team Dogs</b>	<b>Question 10: Why should different electron domains be as far apart as possible?</b> Take the evidence, claims, and conclusion you outlined in the table and construct a succinct argument (no more than six sentences).		
	Team Answer	<b>Reflections (done by Team Strawberries)</b>	
	According to Coulomb's law, like charged particles repel each other. The molecule is the most stable when the energy of the system is at its lowest. As electrons move further from one another due to repulsion, the energy of the system becomes more negative. Therefore, the electron domains should be placed as far as possible from one another.	<b>Identify the evidence, claims, and conclusions presented in the argument.</b>	
		<b>Evidence: charged particles repel each other (which means the closer they are the more potential energy.) Claims: Molecules are most stable when the energy of the system is at its lowest. Conclusions: Therefore electrons should be placed as far as possible from one another</b>	
		<b>Do you consider this to be a strong, valid argument? Why or why not?</b>	
	This is a valid argument but I think they should explain what aspect of Coulomb's law they're talking about even if its implied		

<b>Team Thriller</b>	<b>Question 10: Why should different electron domains be as far apart as possible?</b> Take the evidence, claims, and conclusion you outlined in the table and construct a succinct argument (no more than six sentences).		
	Team Answer	<b>Reflections (done by Team Dogs)</b>	
	We know that electron domains have a negative charge. According to Coulomb's Law the like charges will repel each other. However the electrons remain bound to the positive nucleus of the atom. For this reason, electron domains do not directly repel each other but will be held as far as possible within the atom to minimize repulsion. Therefore, different electron domains should be placed as far apart as possible.	<b>Identify the evidence, claims, and conclusions presented in the argument.</b>	
		<p><b>Evidence:</b> Electron domains have a negative charge. Coulomb's Law says like charges will repel each other.</p> <p><b>Claims:</b> electron domains do not directly repel each other but will be held as far as possible within the atom to minimize repulsion.</p> <p><b>Conclusions:</b> Different electron domains should be placed as far apart as possible.</p>	
		<p><b>Do you consider this to be a strong, valid argument? Why or why not?</b></p> <p>We consider this group's argument to be valid and strong as it provides central evidence tying in Coulomb's law to the ideas of electron repulsions. It also uses this evidence to make claims that the electron domains will be held away as far as possible because of electron repulsions. However, a small note is that this argument answers the question of why electron domains are farther apart rather than why should they be far apart.</p>	

	<b>Question 10: Why should different electron domains be as far apart as possible?</b> Take the evidence, claims, and conclusion you outlined in the table and construct a succinct argument (no more than six sentences).	
	Team Answer	<b>Reflections (done by Team Thriller)</b>

<b>Team Chris Evans</b>	<p>According to Coulomb's law, we know as distance between charges increases, potential energy decreases, and low potential energy means greater stability due to less repulsion between the two electron domains. Like charges repel each other. The bigger the <math>r</math>, the greater the magnitude of the potential energy, meaning it would be the most stable.</p> <p>Therefore, different electron domains should be placed as far apart as possible.</p>	<p><b>Identify the evidence, claims, and conclusions presented in the argument.</b></p>
		<p><b>Evidence:</b> Like charges repel each other. The bigger the <math>r</math>, the greater the magnitude of the potential energy, meaning it would be the most stable.</p> <p><b>Claims:</b> Different electron domains should be placed as far apart as possible.</p> <p><b>Conclusions:</b> Therefore, different electron domains should be placed as far apart as possible.</p>
		<p><b>Do you consider this to be a strong, valid argument? Why or why not?</b></p> <p>Their argument is strong however the connection between being the most stable and the electron domains being as far apart as possible is vague.</p>

<b>Team Ramen</b>	<p><b>Question 10: Why should different electron domains be as far apart as possible?</b> Take the evidence, claims, and conclusion you outlined in the table and construct a succinct argument (no more than six sentences).</p>	
	Team Answer	Reflections (done by Team Chris Evans)
		<p><b>Identify the evidence, claims, and conclusions presented in the argument.</b></p> <p><b>Evidence:</b> According to Coulomb's law, electrons, which are negative, repel each other. As the radius between two domains increases, the energy of the system decreases. The system is most stable when the energy of the system is as low as possible.</p> <p><b>Claims:</b> By maximizing the radius between electron domains, we are making the system more energetically</p>

		<p>favorable. <b>Conclusions:</b> Therefore, different electrons domains should be placed as far apart as possible.</p>
		<p><b>Do you consider this to be a strong, valid argument? Why or why not?</b></p>
		<p>The argument is valid because their claim as to why the system wants to be most stable is backed up by their evidence using Coulomb's law.</p>