

Outcome-Based Student Self Assessment

Student Name: _____

Course: Science 10F

Unit: **Static Electricity**

Outcomes & Examples	Green/Red/ Yellow?	Student's Action Plan What will you do to achieve the outcome? (check all that apply)	Follow Up -What have you done? -Is the outcome achieved?
Outcome: Models of static electricity. Include: One-Fluid, Two- Fluid, and Particle Models..		<input type="checkbox"/> Read your notes <input type="checkbox"/> Seek extra help <input type="checkbox"/> Ask a friend <input type="checkbox"/> Check your text/internet <input type="checkbox"/> Sign up for a Peer tutor <input type="checkbox"/> Make study notes	
Describe each of the models and name the scientist who came up with each.			
Outcome: Laws of attraction and repulsion.		<input type="checkbox"/> Read your notes <input type="checkbox"/> Seek extra help <input type="checkbox"/> Ask a friend <input type="checkbox"/> Check your text/internet <input type="checkbox"/> Sign up for a Peer tutor <input type="checkbox"/> Make study notes	
List the three laws of attraction and repulsion.			
Outcome: Methods of charging. Friction		<input type="checkbox"/> Read your notes <input type="checkbox"/> Seek extra help <input type="checkbox"/> Ask a friend <input type="checkbox"/> Check your text/internet <input type="checkbox"/> Sign up for a Peer tutor <input type="checkbox"/> Make study notes	
Describe, using diagrams how an object becomes charged by friction.			
Outcome: Methods of charging. Contact		<input type="checkbox"/> Read your notes <input type="checkbox"/> Seek extra help <input type="checkbox"/> Ask a friend <input type="checkbox"/> Check your text/internet <input type="checkbox"/> Sign up for a Peer tutor <input type="checkbox"/> Make study notes	
Describe, using diagrams how an object becomes charged by contact.			

Outcomes & Examples	Green/Red/ Yellow?	Student's Action Plan What will you do to achieve the outcome? (check all that apply)	Follow Up -What have you done? -Is the outcome achieved?
Outcome: Methods of charging. Induction		<input type="checkbox"/> Read your notes <input type="checkbox"/> Seek extra help <input type="checkbox"/> Ask a friend <input type="checkbox"/> Check your text/internet <input type="checkbox"/> Sign up for a Peer tutor <input type="checkbox"/> Make study notes	
Describe, using diagrams how an object becomes charged by induction.			
Outcome: Detecting Charges using electroscopes. Include movement of electrons.		<input type="checkbox"/> Read your notes <input type="checkbox"/> Seek extra help <input type="checkbox"/> Ask a friend <input type="checkbox"/> Check your text/internet <input type="checkbox"/> Sign up for a Peer tutor <input type="checkbox"/> Make study notes	
Show, using diagrams, how an electroscope can be charged by contact and induction. Show the movement of electrons in the electroscope, and the transfer of electrons (if any).			
Outcome: Applications of electrostatics. Lightning & Lightning Rods		<input type="checkbox"/> Read your notes <input type="checkbox"/> Seek extra help <input type="checkbox"/> Ask a friend <input type="checkbox"/> Check your text/internet <input type="checkbox"/> Sign up for a Peer tutor <input type="checkbox"/> Make study notes	
Describe how lightning is formed using diagrams. Explain how a lightning rod works.			
Outcome: Applications of electrostatics. Electrostatic Precipitators, Electrostatic Spraypainting Photocopiers		<input type="checkbox"/> Read your notes <input type="checkbox"/> Seek extra help <input type="checkbox"/> Ask a friend <input type="checkbox"/> Check your text/internet <input type="checkbox"/> Sign up for a Peer tutor <input type="checkbox"/> Make study notes	
Choose one of the applications of electrostatics and describe how it works (use diagrams wherever possible).			

Outcomes & Examples	Green/Red/ Yellow?	Student's Action Plan What will you do to achieve the outcome? (check all that apply)	Follow Up -What have you done? -Is the outcome achieved?
Outcome: Electrophorus		<input type="checkbox"/> Read your notes <input type="checkbox"/> Seek extra help <input type="checkbox"/> Ask a friend <input type="checkbox"/> Check your text/internet <input type="checkbox"/> Sign up for a Peer tutor <input type="checkbox"/> Make study notes	
Explain, using diagrams, how an electrophorus, stores and transfers electric charge.			

Outcome-Based Student Self Assessment

Student Name: _____

Course: Science 10F

Unit: Current Electricity

Outcomes & Examples	Green/Red/ Yellow?	Student's Action Plan What will you do to achieve the outcome? (check all that apply)	Follow Up -What have you done? -Is the outcome achieved?
Outcome: Define Current as the flow of electrons		<input type="checkbox"/> Read your notes <input type="checkbox"/> Seek extra help <input type="checkbox"/> Ask a friend <input type="checkbox"/> Check your text/internet <input type="checkbox"/> Sign up for a Peer tutor <input type="checkbox"/> Make study notes	
Create an analogy to describe the concept of current.			
Outcome: Solve problems using $I = \frac{Q}{t}$		<input type="checkbox"/> Read your notes <input type="checkbox"/> Seek extra help <input type="checkbox"/> Ask a friend <input type="checkbox"/> Check your text/internet <input type="checkbox"/> Sign up for a Peer tutor <input type="checkbox"/> Make study notes	
Find the amount of time it takes to shock a robber with a taser if you need 0.8 Coulombs of charge and the taser is rated at .3 Amps			
Outcome: Define voltage as the amount of energy per charge.		<input type="checkbox"/> Read your notes <input type="checkbox"/> Seek extra help <input type="checkbox"/> Ask a friend <input type="checkbox"/> Check your text/internet <input type="checkbox"/> Sign up for a Peer tutor <input type="checkbox"/> Make study notes	
Create an analogy to describe the concept of voltage.			
Outcome: Solve problems using $V = \frac{E}{q}$		<input type="checkbox"/> Read your notes <input type="checkbox"/> Seek extra help <input type="checkbox"/> Ask a friend <input type="checkbox"/> Check your text/internet <input type="checkbox"/> Sign up for a Peer tutor <input type="checkbox"/> Make study notes	
What is the energy in a 12 volt that has 2 coulombs of charge flowing.			

Outcomes & Examples	Green/Red/ Yellow?	Student's Action Plan What will you do to achieve the outcome? (check all that apply)	Follow Up -What have you done? -Is the outcome achieved?
Outcome: Identify the five sources of electrical energy, and give an example of each.		<input type="checkbox"/> Read your notes <input type="checkbox"/> Seek extra help <input type="checkbox"/> Ask a friend <input type="checkbox"/> Check your text/internet <input type="checkbox"/> Sign up for a Peer tutor <input type="checkbox"/> Make study notes	
Identify the five sources of electrical energy, and give an example of each.			
Outcome: Describe resistance using the particle model of electricity		<input type="checkbox"/> Read your notes <input type="checkbox"/> Seek extra help <input type="checkbox"/> Ask a friend <input type="checkbox"/> Check your text/internet <input type="checkbox"/> Sign up for a Peer tutor <input type="checkbox"/> Make study notes	
Create an analogy to describe the concept of resistance.			
Outcome: Draw the symbols for the parts of a schematic circuit diagram.		<input type="checkbox"/> Read your notes <input type="checkbox"/> Seek extra help <input type="checkbox"/> Ask a friend <input type="checkbox"/> Check your text/internet <input type="checkbox"/> Sign up for a Peer tutor <input type="checkbox"/> Make study notes	
Draw the symbols for the parts of a schematic circuit diagram (cell, battery, switch, bulb, resistor, ammeter, voltmeter)			
Outcome: Differentiate between a series and parallel circuit.		<input type="checkbox"/> Read your notes <input type="checkbox"/> Seek extra help <input type="checkbox"/> Ask a friend <input type="checkbox"/> Check your text/internet <input type="checkbox"/> Sign up for a Peer tutor <input type="checkbox"/> Make study notes	
Compare and contrast parallel and series circuits.			
Series (Differences)	Similarity	Parallel (Differences)	

Outcomes & Examples	Green/Red/ Yellow?	Student's Action Plan What will you do to achieve the outcome? (check all that apply)	Follow Up -What have you done? -Is the outcome achieved?
Outcome: List the major components used in household wiring.		<input type="checkbox"/> Read your notes <input type="checkbox"/> Seek extra help <input type="checkbox"/> Ask a friend <input type="checkbox"/> Check your text/internet <input type="checkbox"/> Sign up for a Peer tutor <input type="checkbox"/> Make study notes	
Define/Describe the following: <ol style="list-style-type: none"> Fuse Circuit Breaker Black Wire White Wire Ground Wire Polarized Plugs Polarized Outlets GFI's 			
Outcome: Define power as energy per unit time, and solve problems using $P=E/t$ and $P=IV$		<input type="checkbox"/> Read your notes <input type="checkbox"/> Seek extra help <input type="checkbox"/> Ask a friend <input type="checkbox"/> Check your text/internet <input type="checkbox"/> Sign up for a Peer tutor <input type="checkbox"/> Make study notes	
<p>If a hairdryer uses 1400 watts of power on a 110V circuit, what is the current?</p> <p>If a PSP uses 1000 Joules of energy if it is on for 2 minutes, find the power rating of the PSP.</p>			
Outcome: Read a Hydro Meter		<input type="checkbox"/> Read your notes <input type="checkbox"/> Seek extra help <input type="checkbox"/> Ask a friend <input type="checkbox"/> Check your text/internet <input type="checkbox"/> Sign up for a Peer tutor <input type="checkbox"/> Make study notes	
Paste Hydro Meter here!			
Outcome: Solve problems involving cost of electricity.		<input type="checkbox"/> Read your notes <input type="checkbox"/> Seek extra help <input type="checkbox"/> Ask a friend <input type="checkbox"/> Check your text/internet <input type="checkbox"/> Sign up for a Peer tutor <input type="checkbox"/> Make study notes	
<p>A home theater system uses 1500 W of power. If you watch a movie for 90minutes, how much will it cost if electricity costs 6 cents/kWh?</p>			

