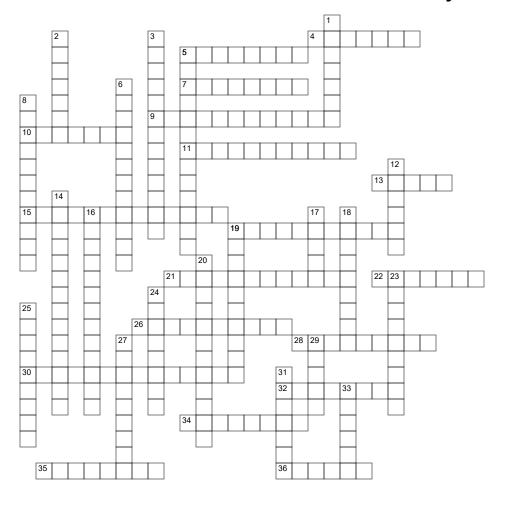
Electrochemistry



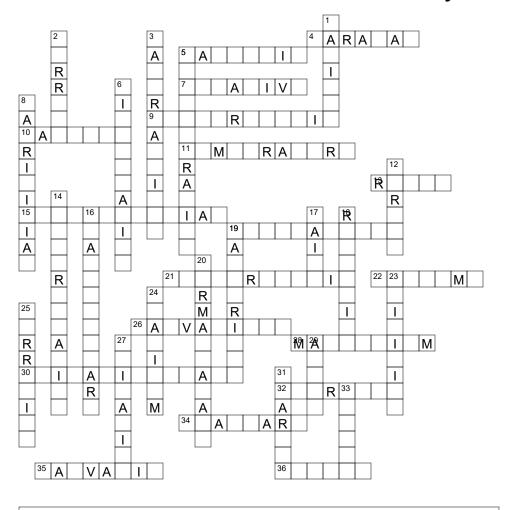
Across

- 4. The charge on 1 mol of electrons (96500 C) is known as the ___
- One way to prevent corrosion involves attaching a more easily oxidized metal like Zinc. This is called ____ protection
- 7. The outside charge label for the anode in a Voltaic cell
- Using electricity to force a non-spontaneous redox reaction to occur
- The electrode where reduction occurs in an electrochemical cell
- One of the experimental variables that affects the voltage produced by a Voltaic cell
- A __ reaction is an electrochemical reaction that involves the transfer of electrons
- 15. The ___ __ is found by adding the reduction potential at the cathode to the oxidation potential at the anode
- A redox reaction is ____ if its standard cell potential is positive

- An ____ cell uses a battery to force a non-spontaneous redox reaction to happen
- 22. The SI unit for electric charge
- 26. When steel is ____, it is coated with a thin layer of zinc metal to prevent the corrosion of the steel
- 28. If a piece of ____ metal is put into a solution containing zinc cations, solid zinc metal will be produced
- 30. An ___ _ is an imaginary charge assigned to atoms in order to track the transfer of electrons in a redox reaction
- 32. The potential for the standard ____ electrode is the reference from which other potentials are compared
- 34. ___ conditions for an electrochemical cell are 1 M concentrations, 298 K, and 1.00 atm for gases
- 35. A Voltaic cell is also known as a ____ cell
- 36. The SI unit for time

Down	
1.	While a Voltaic cell is operating,
١.	the in the cell flow towards the cathode
2.	is the rate at which charge
	flows through a circuit. It's units
	are C/s or Amperes
3.	We often balance redox reactions by the method of
5.	One of the experimental variables
	that affects the voltage produced
	by a Voltaic cell
6.	An example of : Fe Fe2+(1M) Pb2+(1M) Pb
	Fe2+(1M) Pb2+(1M) Pb
8.	A block of magnesium metal attached to the hull of a ship to
	prevent corrosion is acting as a
	anode
12.	The equation lets you calculate
	cell potential under non-standard
	conditions
14.	A battery or power source can be
	used in, where a metal is usually coated with a more
	valuable metal
16	In line notation, a single vertical
	line represents a
17.	A simple way to reduce corrosion
	of metals on ships, bridges, railings
40	etc is to the surfaces
18.	Results in a decrease in oxidation state
19.	The maintains electrical
	neutrality in the two half-cells of a
	Voltaic cell; it also completes the
20	circuit Chloride ions can be oxidized to
20.	make chlorine gas if put in an
	acidified solution containing
	ions
23.	Fluorine (F2) is a very strong
L.	agent
24.	In gas electrodes, an inert metal
	like is used to conduct electricity
25	The oxidation of metals
	The loss of electrons
	The electrode where oxidation
	occurs in an electrochemical cell
31.	In a chemical equation, both atoms
	and must be balanced
აპ.	An older definition of oxidation refers to the addition of in a
	chemical reaction
	onormout reaction

Electrochemistry



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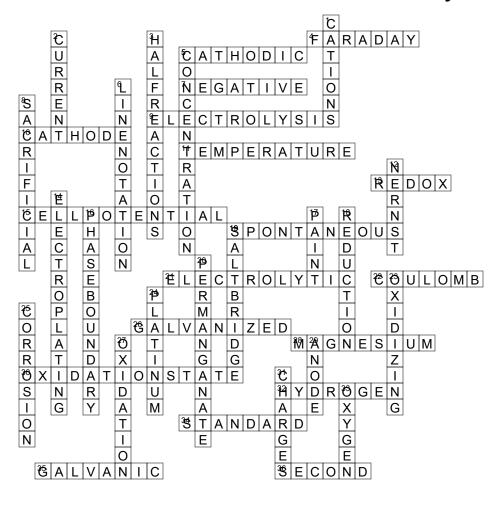
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14.	A battery or power source can be	
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	usually coated with a more	
	valuable metal	
16.	In line notation, a single vertical	
4-7	line represents a	
17.	A simple way to reduce corrosion	
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20.	Chloride ions can be oxidized to	
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	ions	
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	agent	
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25.	The oxidation of metals	
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