essential review

Using the words provided, fill in the blanks below to form a thorough review of Chapter 7, "The Basics of Chemistry and Electricity." Words or terms may be used more than once or not at all.

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- 1. A solution that has a pH less than 7 has an Alfaline pH, and a solution that has a pH higher than 7 has an Alfaline pH.
- 2. A physical change is a change in the form of a substance, without the formation of a new substance. A change occurs when a new substance is formed.
- 3. A CONVENCED is a substance that acts as a bridge to allow oil and water to mix, or emulsify.
- 4. Alcohol is a readily evaporating, colorless liquid obtained by the fermentation of starch, sugar, and other carbohydrates.
- 5. An ______ is the smallest particle of an element that is capable of showing the properties of that element.
- 6. Anything that occupies space is defined as ______
- 7. Characteristics of physical properties include _______, specific gravity hardness, odor, and color.
- **8.** <u>£mulsims</u> are formed when two or more immiscible substances, such as oil and water, are united with the aid of a binder.

essential review continued

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9.	horacon chemistry is the branch of chemistry that deals with all substances
, , , ,	that do not contain carbon
10.	Matter exists in three forms, solids, ——————, and gases.
11.	Onto the pastes, pomades, and styling waxes are semisolid mixtures made
	with any combination of petrolatum, oil, and wax.
12.	
	which carbon is present.
13.	DXIdizma_ agents are substances that readily release oxygen.
14.	Solvents are classified as MSCIDIL and immiscible.
	Solve and are any substances that are able to dissolve another substance.
16.	Surfactant molecules have two ends: hydrophilic and hipophylic.
	A 505000 is a state in which solid particles are distributed throughout a liquid
	medium.
18.	The universal solvent is
	The basic unit of all matter is an
	The science that deals with the composition, structure, and properties of matter is
	Chemistry.
21.	To measure the pH of products, use
	Two or more atoms that are joined together chemically form a Milcull.
23.	When a substance is made up of two or more different elements, chemically joined, it is a
	molland Companol
	When elements combine physically, they are called MATATO.
25.	When oxygen combines with other substances so rapidly that light energy as well as hea
	is created, the process is known as <u>Combostion</u> .
26.	is a form of energy that produces magnetic, chemical, and thermal
	effects.
27.	
28.	A steamer or Vaponize produces moist, uniform heat that can be applied to the
	head or face.
29.	A Converted is used to change direct current into alternating current, and a
	rectifies is used to change alternating current to direct current.
30.	A positive electrode is called a/an, and a negative electrode is called
	a/an <u>COMOCU</u> .

essential review continued

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31.	A fuse is a safety device that prevents the All Child of electric wires.
32.	An amp or Ample is the unit that measures the strength of an electric current
	(the number of electrons flowing through a wire).
33.	An is an applicator that directs the electric current from the machine
	to the client's skin.
34.	Hnaphores is the process of forcing liquids into the tissues from the negative
	toward the positive pole.
35.	Artificial light rays are produced by using an electrical apparatus called a
	the apuric lamp.
36.	current is a constant, even-flowing current, traveling in one direction,
	while <u>Chemating</u> current is a rapid and interrupted current, flowing first in one
	direction, then in the opposite.
37.	Do not use the negative <u>galuana</u> current on skin with broken capillaries or
	pustular acne, or on a client with high blood pressure.
38.	In modern electric wiring, the fuse has largely been replaced by the
39,	rays make up 60 percent of natural sunlight.
	Therapeutic lamps are used to produce artificial Light (CM) in the salon.
	The negative or positive state of electric current is polarity.
	The high Requested current is characterized by a high rate of oscillation or vibration.
	The process used to soften and liquify grease deposits in the hair follicles is
	deinconstration
44.	TheDWe light contains few heat rays and has some germicidal and
	chemical benefits.
45.	creates a chemical change in the identity of a substance.
	The dissolved substance in a solution is known as a <u>Solute</u> .
47.	Volatile alcohols are those that evaporate easily.
48.	Substances that are used to neutralize acids or raise the pH of many hair products are
	known as a Kanolammes
49.	A preservative used in cosmetics that is toxic to inhale, a strong irritant, and a
	carcinogenic is formaldebyd
50.	Another name for electromagnetic radiation is full last lineral
	. The state of the control and the state of

Compound of hydrogen metal with oxygen

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Word Search

After determining the correct words from the clues provided, locate the words in the word search puzzle.

Acidic Solution having a pH below 7.0

Readily evaporating, colorless liquid

Albaline Solution having a pH above 7.0

Ammonia. Colorless gas with pungent odor, composed of hydrogen and nitrogen

The smallest particle of an element that still retains the properties of that element Science that deals with the composition, structures, and properties of matter

(bmbshor) Rapid oxidation of any substance

Chemical combination of two or more atoms of different elements

The simplest form of matter

Emulsion Mixture of two or more immiscible substances united with the aid of a binder or

emulsifier

Sweet, colorless, oily substance formed by the decomposition of oils, fats, or fatty acids

HYOCOPALL Capable of combining with or attracting water

Immisible Not capable of being mixed

Lipophilic Capable of combining with or attracting oil

Any substance that occupies space, has physical and chemical properties, and exists in the form of a solid, liquid, or gas

molecule 5 Two or more atoms joined chemically

Chemical reaction that combines an element or compound with oxygen to produce an oxide

Blended mixture of two or more solids, liquids, or gaseous substances

50 (factiont) Surface active agent

ച്ചായ് State in which solid particles are distributed throughout a liquid medium

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Word Scramble

Scramble	Correct Word(s)
eotùls	스마노인 Clue: Any substance that dissolves into a liquid and forms a solution
etawr	<u>ωα † C.C.</u> C <i>lue:</i> A universal solvent
licilbesmm	<u>Ն.M.M.1-5. Ct. ի \ </u>
lelitavo	<u>ΥDIA 1 LC</u> Clue: Easily evaporated
Inmioseu	Cmuls to a complete substances are united with the aid of a binder
melsbilc .	M <u>LSCLbLC</u> Clue: Mixable
peword	<u>Qowder.</u> C <i>lue:</i> Physical mixture of two solids
setpsa	<u> </u>
snoituo)	
tnevols	501201 Grant dispersed mixtures of two of more kinds of molecules 501201 Clue: Any substance that is able to dissolve another substance
osnnpėsus	5050000000000000000000000000000000000
ntsiemtó	Clue: Semisolid mixtures of organic substances and a medicinal agent

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essential experience

Conductors and Types of Electricity

A conductor is a substance that permits electric current to pass through it easily. A nonconductor is a substance that resists the passage of an electric current. Identify all the items listed below as either conductors or nonconductors of electricity by writing a C or N in the space provided.

ITEMS listed below as state.
in the space provided.
Dry wood Silk Asbestos
C Wet cotton Silver Tar
Copper — Aluminum — Water
Dubber M Broks
Linen
Human body Carbon
Cement Acid or salt solutions
Describe the construction of an electric wire:
In your own words, explain the difference between a direct current and an alternating current.
Direct current: a Constant - wen flaving current that
travels in one direction only produces a
Chemical reaction
Alternating current: a rapid intempted current, floring in
one direction first then the opposite direction.
Handren a mechanical action
Explain: USING
Can one type of current be changed into another type? Explain: Explain:
a converse to average miles to discontinue
A vintifier to change algunaling of aura



Matching Exercise—Electrical Measurements

Match each of the following essential terms with its definition.

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_4	Volt
_3	Amp
2	Milliampere
	Ohm
	Watt
5	Kilowatt

- Measurement of how much electric energy is being used in one second.
- 1/1,000 of an ampere. The current for facial and scalp treatments is measured in this manner.
- The unit of measurement for the strength of an electric current (the number of electrons flowing through a wire).
- Unit for measuring the pressure that forces the electric current forward.
- **5.** The electricity in your house is measured with this unit.
- This unit measures the resistance of an electric current. Unless the force is stronger than the resistance, current will not flow through the wire.

essential **experience**



Safety of Electrical Equipment

Fill in the blanks for the safety precautions that should be followed to avoid accidents and ensure greater client satisfaction.

4	All the electrical appliances you use should be VL certified.
1.	All the electrical applications you are strongly applications and applications of the strong
	Read all Instructions before using any electrical equipment.
3.	<u>Disconnect</u> all appliances when not in use.
4.	Inspect all electrical equipment regularly.
5.	Keep all wires, plugs, and equipment in good <u>repair</u> .
6.	Use only one plug to each thitlet.
7.	You and your client should avoid contact with and metal surfaces
	when using electricity.
	Do not leave your client unattended while <u>connected</u> to an electrical device.
9,	Keep electrical cords off the $\frac{100}{100}$ and away from people's feet.
10.	Do not attempt to <u>Clean</u> around electric outlets while equipment is
	plugged in.
11.	Do not touch two Metal objects at the same time if either is connected
	to an electric current.
12.	Do not step on or place <u>Objects</u> on electrical cords.
13.	Do not allow electrical cord to become
	circuit.
14.	Disconnect appliances by pulling on the, not the cord.
	Do not attempt to <u>(P.D.)</u> electrical appliances unless you are qualified.
10.	Do not attempt to - + 1/P Glocation application

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