	Name:	ANSWERS		Date	ing a series de la companya de la co	
		SCIENCE				
	SKIC SKIC				Chemistry Review	
	Fill in the l	blanks (use the follow	wing list)			
	catalyst	chemical	coefficient	combustion	endothermic	
	negative	polyatomic	rate	reactants	synthesis	
1.	A chemical	property is one that	t involves the produc	ction of a new subs	stance.	
2.	The startin	ng materials in chemic	cal reactions are cal	led <u>reactants</u>		
3.	The electro	on is a subatomic par	ticle that has a <u>neo</u>	<u>jative</u> charge.		
4.	An ion that	contains more than	one atom is called a	polyatemicion.	طبيمتن	
5.	The number	r written in front of	a chemical compound	d is called a Cott	icient.	
6.	The burning	g of a substance is co between elements is	a counthesis re	· action		
7. 8.	The speed	at which a reaction o	ccurs is the rate	ection. of reactio	n.	
	A reaction	that absorbs heat is	called endothern	nic		٠
10.	A substance	e that speeds up che	mical reactions is co	illed a catalys	<u> </u>	
		•				
B.	True or Fa	ilse (If the statemen	it is false, rewrite t	he statement to m	ake it true)	
11.	Compounds	that contain carbon	and hydrogen are co	alled ionic compour	Rds.	
	F		:		compounds	
12.	. Another te	rm for bonding capac	city is oxidation num	iber.		
13.	. Analkaline Falko	carth metal element	forms an ion with a	1- ionic charge. +		
14.		equation describes of	nly the names of th	e reactants and pr	oducts.	
•	T					ut
15.	. The Law of	Conservation of Ma	ss states that the n	umbers ot atoms o	of reactants and products must be	the same.
16	. The reactio	on of barium nitrate	and sodium sulphide	would be a double	displacement reaction.	F
, and						
17	. Grinding a	solid into a dust incr	eases its surface ar	ea.		
~	Cimilanidia	s/Differences (desc	niha cimilarities/dif	ferences hetween	each pair)	
		operty, chemical pro		19 proton ne	eutron	
10	shucical a	moserty observed	l using	-> both	ptine found in nucleu	uS.
	T censes	THE IND CLICA	THE WILL STATE OF			
**	chemica!	property obser	rved <u>during</u>	⇒ p' n	as the charge	
	chemica	.1 change				•
20), atom, ion	man sen tat	ions of elemen	its a beth	pound, covalent compound represent combining of	element
7	both ar	e representat	a charge	s issic	is between a metal	non-met
-	atom di	oes not have	•	- covale	nt is between 2 no	metals
->	ions d	o have char	20			
-	both in	lacement, double displace	ements of elen	nents s	ynthesis = 2 or more little 1 big bit	e bits MA
-	single	displacement	nas an eloni		1 BIG 67	- breaks
-	double	distlacement	has compoun	AT AT	MOMENT INTO DE C.	Bankson mer sage
24	1. cation, ion	a share I as	ticles	/ 1 Phonories	mic, exothermic are reactions involved	
-16	poth or	e charged par		as endo	absorbs energy	U
3	cutibn :	- ve		- exo	releases energy	

	지 :
·	
A state the Change the host engue	
D. Multiple choice (Choose the best answer	() (a) (a) (a) (a) (a) (a) (a) (a) (a) (a)
°6. What is the formula for the compound sodium su	iipnate?
(a) SSO ₄	
b) Na ₂ S	
c) NaS₂	
(a) Na₂SO₄	
27. What is the name of the compound PCl ₃ ?	
a) phosphorus chloride	
b) potassium carbide	
c) phosphate chloride	
(i) phosphorus trichloride	
_	
28. What type of reaction occurs between magnesium	n and hydrogen chloride?
a) synthesis	
b) decomposition	
© single displacement	
d) double displacement	
29. What type of reaction occurs between sodium an	id chlorine?
(a) synthesis	
b) decomposition	
c) single displacement	
d) double displacement	
30. What type of reaction occurs between magnesium	m carbonate and ammonium nitrate?
a) synthesis	
b) decomposition	
c) single displacement	
(d) double displacement	
(a) (
31 When Alkaseltzer is ground into a powder, it rea	cts more quickly in water. This is an example of the effect of:
a) concentration	
surface area	•
c) temperature	
d) a catalyst	
a) a caratyst	
32. Cake batter rises when the cake is baked. This is	s an example of the effect of:
a) concentration	
b) surface area	
temperature	
d) a catalyst	
entité per l'ille	halanced equation is
33. The sum of the coefficients from the following	buildinged equation is
$4K_{(s)} + O_{2(g)} \rightarrow 2K_2O_{(s)}$	
a) 11	
b) 6	•
c) 7	
d) 8	

Name	Formula
sodium bromide	NaBr
lithium phosphate	lithium phosphate LizPO4
magnesium iodide	MgI₂
calcium carbonate	CaCO3
calcium nitrate	Ca(NO ₃) ₂
silver iodide	AgI
· iron (III) chloride	FeCl ₃
aluminum bromide	AlBra
potassium sulphate	K₂SO4
phosphorus trichloride	PC13
carbon tetrabromide	CBr ₄
dinitrogen pentoxide	N205
sulphur tetrachloride	SCI ₄
lead(II)oxide	Pb O

F. Balancing (balance the following equations and identify the type of reaction)

Da.		_			
	^	2) UF) vn	. т
80.	Br _{2(a)} +	- K1(aa) 🔰 🚅	KBr(aq)	+ I _{2(g)}

35.
$$4 K_{(s)} + _{02(g)} \rightarrow 2 K_2O_{(s)}$$

36.
$$4 \text{Na}_{(s)} + O_{2(q)} \rightarrow 2 \text{Na}_2 O_{(s)}$$

37.
$$3 \operatorname{Sr}_{(s)} + \operatorname{N}_{2(q)} \rightarrow \operatorname{Sr}_3 \operatorname{N}_{2(s)}$$

38. 6 Na_(s) +
$$N_{2(g)} \rightarrow 2$$
 Na₃N_(s)

39. zinc + iron(III)nitrate → iron + zinc nitrate

40. magnesium carbonate → magnesium oxide + carbon dioxide

41. silver nitrate + calcium iodide → silver iodide + calcium nitrate

42. potassium + oxygen → potassium oxide

Type: Single displacement

Type: synthesis / combustion

Type: synthesis /combustion

Type: synthesis

Type: <u>Synthesis</u>

Type: single displacement

Type: decomposition

Type: double displacement

Type: combustion/synthesis

. Bonding (Using electron dot diagrams, show how the following molecules are formed)

43. lithium and sulphur

Bond type	Chemical formula	Chemical name
IONIC	LizS	lithium sulphide

44. carbon and oxygen

Bond type	Chemical formula	Chemical name	
COVALENT	CO2	carbon dioxide	

H. Diagrams (Draw Bohr-Rutherford Diagrams for the following)

15. Gosinnings potassium, K

46. Aluminum ion, Al3+

69 K 19pt -8e-19 K 20n° -8e27 Alian - 2e-