30/7/24 chapter: 2 Acid, bases and salt and beginning coll the chemical can be classified an the basis Of their chemical properties às acid bases and saltar truly a building and rules 1 abando tilecció tunether an jent in inhi tit Acidic Or balic is nature Indication is a string subject help us to know wether the given Subtance is a cidio all mill \* Types of Indicator Billian Colfain Natural indication and indication which occurs nativally eg/rumarie minimor Anna, while end it de sade Synthetic fiber Manmade fiber: Synthetic indicator / Maromate in dicator. Sythetic indicator are manmade indicate eg: Methyl orange:

	Date :
	alfactory indicator + 20208 *
T · 1	ithèse are the indicator which help us to
1 1 1 to	to check the given subtance is acidic or
	Basic by smell of as whall so +
	eg: Vanilla, anion, clones.
	The thirt will still be to do not stopped to be stopped to be stopped to
*	Acids *
-	Acids has Htions misconing and misconing
	flrer acy corrosive in nature
<u> </u>	Sour in testil in testil in the state of the
-	blue litmus to zed.
4	* Fearth nation Bish notals 4.
*	Basesi* Inter deine Harare himse acity
	Bases have OH Jons
_	Basi cally Bopy I'n texterre
VI.	+ Bilter in take
-	red litrius to bene lots Mat 15104
*	Tupes of duds - mit month in the
· (	ON O S
1	(Organic) (Prorganic)
	Cardanics Charganics
	+ 110097 6- 9-11-00011102
\.\.\.	tartaric acid Cminital)
_	- ci-tric acid cacids
	- Ox yaru'c au'd
(191)	methanicacid to (CHCL) (H2SOy), M
	Acetic a d'd : Ation : his (H2NO3) roder is
*	- Lactic a a'd.
F -V	The the oday in the interest of the next better the property
	of the capt to end to the fact of the fact
	, and the k3 1. I The

	Date :
*	Bases*
77	anna and an
<i>(</i>	labaratories and are strong and needed
	labaratories and are strong and needed to be diluted when to use.
•	
_	Some example ave:  Magnesium hydroxide [mg(oH),]  - Calcium hydroxide [ca (oH)z]   blo 4 +
	Calcium hydroxide [ca (oH)2]
٠.	- sodium hydroseide [NaoH]
	notes in hydroxide [KOH]
-	- potasium hydroxide [KOH] - ammonia hydroxide [NHyOH]
*	Reaction of Acid with metals *.
	Links a civid yadala . IIIth Metus was considered
	in to formation of salt of 12 plus - evalution Hydrigen (H2) is evalued.
	evolution Hydrogen (H2) is evolved.
	The second secon
	Acid + Metal -> salt of Hondi
7	Eq: " H2504 + Zn -> Zn 504 -> H, 1111
	Sculphunic/ (Zinc) sinc / Hydrogen
	acid for all supports for a ready
	shina is a series of the life of the series
	PERSONAL TRANSPORTERS
	The du'd and metal reaction is single dis placement reaction
	dis placement reaction
	Little Nilla XII -
*	How do metal carbonate and metal Hydeogen
	carbonate reads with cocids.
6.5	Metal corbonate de metal hydragen
America	raxbonate reacts with cacide to form
	salt i rarbon-dioxid and water.

	Date :
Ales	metal carbonate/me tal bicarbonede + Acid
	-> salt + H20 + CO2
	Na2CO3+2HCL -> 2NACL + H2O + CO,
74	1908 + 304000 - 11/11.4 Sbinon 1+1 smg.
*	Test of Hydrodin gas. * Il
الماج ا	The gas evolve during any teach on
4	could sit and make it contact with
	Burning randle it kurn with pop sound
18.	It assure the presence of Hydrogen cas-
4 Ab	Test of Co2 *
<u>*************************************</u>	The gas evolved during any a reaction.
12	- Land Dorge At the Would have the
	water which muel form à mide perecipitet
27	of calcium carbonates
4	Car(OH) 2 + CO2 -> CarCo3 + H2Pcix
3- <b>I</b> T	salt on south taily thought the sale of
9116	Lesa & strankicon e di dono white normandivias
1 1 m	Legal TH Atradam Stra St. M. Committee S
	S Served non a room de mande de la compansa de la c
*	Reaction of Acid with Bases.
<u> </u>	Acid + Bases -> salt + water:
	Cneutealization Readtion)
	CITOCAL E-CITOCAL
Dv.	NaoHota Helv to Nacl + H20
	fodium ? stydnochlonic ? sodium ? swatig Ehydnoxide st. aud st. chlonide st
	Phydroxide I aud J Chlonde [2]
	-39-110-1 - CUCI-E2-
·	

1	-	
A STATE OF		Date:
سلس		
مسر	b1 14	- This reation is also called neutralizati
	-	reaction - with the tomp + 6 mg
11	*	
		metal oxide + au'd -> water + salt.
Market Street		(Basic Innature), in bond philo 1251
1	*	
		divide the from the assure the latest and
1986	Land	non metal + acid > salt + water.
	(a s.	oxide buses and shines in the
Name of Street		(acidi's in nature)
1		Example: # (0) to to to
		- will most on more anized the Lewisvas sopro to -
STATE OF THE PARTY	)	(Ca(OH)2+Co2 -> Ca(O3+H2O)
明朝	Artigin	(Base) (non Balt) + (wateri)
1		metal) metal militaria
	*	Existance of H2
		Hydrogen gas cannot existatione in the enviornment it combine with water molegue
		enviornment it combine with water molegue
		for existance The seperation of Htions from
		HCL molequele connot occur in absense of
101 I		* Ruchish of Acid with Brises. 1.39+DW
開稿		HeL + H20 -> H30++ Cl - 200+ 1004
图19		H++H20-> H30+
		Alkali are subdances which
	123	Alkali are subdances which
	Ą	dissolve complety in
		uate e.
To the last of the		
-	Was .	

1 60	Date
	Date :
	The process of dissolving an acid. or base in water is highly exothermic one.
	11) Water 15 highly exothermic one.
.32.	concentrated nitn's a cid. or sulphuris a cid.
	concentrated mitric acid.or sulphuric acid.
N. A.	IVV + Passe e- prinche se a digina -
	Hand to accord to be a suffly to a suffly to
*	How we come to know that and are
	5trong *
-3511	COHO - SUBVE - SIBORE
	EPM3 - DEDENORATION DEDENORATION
The A. J.	
35.1	pour of Hydrogen. + marti-
	1
	1 The second of
	Acidica Neutealatria Basic.
	The state of the s
11/20	The strength of acids and bases depends on
FE. or	H+ oc OH ions produced by him mailed
- B DC	Surve or decord by serie pristage on arms
*	PHON daily life rold morboz to nothers &
3.	acidic 3011 ensure feuting and Alouse mine
	of plantillation rolds is and flowering
٦.	- it play as important in out digestion
	it can cause tooth ofear decay.
_	- courses a ci'd Éain
	The same of the sa
*	chionine is used as disinfecting agent.
	and the second of the second o
No.	

		Date:
_		da i de la indiscolla de la mora sali-
	) ; 1	
	*	
	<del>,</del>	storage + weak -> acidic + vvaler.
111.	x13 F.	a cide Baserin Baltasons
111	_	weak + strong -> Basic + walte
		acid line in Basen of singalt or work of
		* 11 1 20 G = 1
	-	weak weak -> Neutral + vrates
		acid + Base Salt
		Jat 491 42 1
_	-	- Strong + Strong -> Netural + Water
		au'd Base Salt
	16	the second secon
N. C.	*	comman salt
		Sodium chloride l's row material is
		used in various sectors.
5	N.S.	through seemed brush but I at private of I
W.	*	sodion Hydroxide hare sand THO 30 th
		when electricity is passed through an aqueous
		solution of sodium chiomide (alled Brine) it
	FOIT	decomposes to Rom sodium Hydnoxide. The
		process is called chlor - alkali process.
TOTAL STREET		and soil 312 for for forblood and so world the - x
		cathod. < anode
横横	100	1 1 2
	18/24	
		+ Na C-
		T NW OH
		+H )
	G.	Brine
ij <u> —</u>	ar.	
	- "- " a	men breine.

	Date:
*	sodium chloride. ittil and god and the
	comman name: common salt
111	chemical name: Nacharl 180 2111-
	・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・
	John mismoccurance and selle 111-
•	el de la constataction.
	a) seawate ¿ Inland
	Fire napartiph to evelakes
	13 Assistant 200 by a b) Rock sait in I have in the
2117	The some innernation of the or and the
	Uses: " smirr marri souborn or lose z'i ti lei
	it is essenstial constituent for our diet.
	it is important naw material to manufacture.
Timber .	60dium hydroxuide, Bleaching powez baking
1-	soda and more.
	राष्ट्रीय विश्व स्थापन
*	
	comman name: caus H'c soda.
1, 2.	chemical name: NaOH
	Manufactured by: chior alkali proces
1.5	פורפורמולתוג ואריים וויים וויים ביו
	shinteldance chiorine 1900 Napition
phase	+ sticles eleminargues!
1 000	[By-pooduct] [Main product]
0	[diagram drawn above] iles in 1
-	This process is also called electrolysis of
	Aquelous sodium Chloride or electrolysis of
	Brine Bolution (water + Mad)
+ ; F	my braid and children to the hide hide while in
	TOHAN TOHAN
•	

STATE		Date:
-		
1	*	uses of chlor alkali allisalda musilme
,,	*	^
		it is used to manufature soaps and
		detergent
	_	it is used to ma for degresing metals
		it is used as idrain deanet.
	1.	10 10 2 2 2 2 10 10 10 10 10 10 10 10 10 10 10 10 10
	*	Uses of Hydrogen gas*
	<u>a</u> )	Liquid hydrogen is used as rocket feed
	5)	It is used to produce amounta as territies
	c)	it i's used to produce margarine.
_		- HE is disensifical coor liter mus diet.
	92-1	uses of chionine gas * mo techto sacrit à l'it
	A NOT	it is used to manufactuse pestuaes
THE RESERVE		it is used to manufacture efes Por
STATE A SPACE		its used as disinefectant in swimming
		pool show sitte countries of the continuous o
		+ Christian dance Mach
	*	Bleaching spoudee * : 1 12.2 who was the st
-		chemical formula: Caocl,
Department.		chemical name: Calcium oxychloride
The state		Eyellowrash white power
THE REAL PROPERTY.	(4) 11	chlorine gas is obtained as by product for
- ANDREAD	,	Chlor-ou kali process when react with
-	20 8	dry slaked line produces Bleaching
	1080	powder alimital machine as as and
		(10001 + 8 91000) nothing sires
		it is used in textile industries for bleaching of
12	× 1	cottan
	+ i	7 13 med as axidision anens