SECTION 7

CHEMISTRY

ẸKỌ́ ẸLÀ

INTRODUCTION / ỌRỌ̀ ÀKỌ́SỌ

Chemistry is the science of matter, especially its properties, structure, composition, behavior, reactions, interactions and the changes it undergoes. Chemistry is sometimes called "the central science" because it connects physics with other natural sciences such as astronomy, geology and biology.	**Ẹ̀kọ́ Ẹ̀là jẹ́ ẹ̀kọ́ ìmọ̀-jinlẹ̀ ti ẹ̀dá, pápàá, ti ìṣesí***, èto-inú, ohun-inú, ìṣèwàhù, àsè, ìbárasepọ̀ àti àwọn ìyípadà tó má nní. A máa npè ẹ̀kọ́-ẹ̀là ní ìmọ̀-jinlẹ̀ t'àárín nítorí òun ló ṣe àsopọ̀ àwọn ẹ̀kọ́-ẹ̀dá pẹ̀lú àwọn ìmọ̀-jinlẹ̀ míràn bí ẹ̀kọ́ (nípa) ìràwọ̀, ẹ̀kọ́ ìṣẹ̀dálẹ̀-ayé, àti ẹ̀kọ́ ẹ̀dá-oníyè.**
Chemistry is the study of matter and energy and the interactions between them.	**Ẹ̀kọ́ ẹ̀là jẹ́ ẹ̀kọ́ àwọn ẹ̀dá, agbára àti àwọn ìbárasepọ̀ tó wà láarín wọn**
Chemical reaction is a process that leads to the transformation of one set of chemical substances to another.	**Àsè ẹ̀là jẹ́ ìlànà bí àwọn ìjọ ẹ̀dá kan ṣe nparadà sí àwọn ìjọ ẹ̀dá miran.** **(àsè: reaction; ẹ̀là: chemicals)**
Chemical equation is the symbolic representation of a chemical reaction where the reactant entities are given on the left hand side and the product entities on the right hand side	**Ọ̀mì (equation) ẹ̀là jẹ́ àmì àpẹrẹ àsè ẹ̀là bí a ti nfi àwọn èsè-àsè (reactants) sí apá òsì tí a sì fi àwọn èsún-àsè (product of reaction) sí apá ọ̀tún.**
Chemical composition: the arrangement, type and ratio of atoms in molecules of substances	**Èto Ohun-inú ẹ̀là: Èto, oríṣi àti ìbùpín (ratio) àwọn átọ̀mù tó wà nínu mólékù àwọn ẹ̀dá**
Chemical synthesis is purposeful execution of chemical reactions to get a product, or several products	**Ìṣẹ̀dá ẹ̀là (Ìṣẹ̀dá: bring to existence) jẹ́ ìlànà tí a mọ̀ọ́mọ̀ gbà se àsè láti ní èsún tàbí àwọn èsún tí a nfẹ́.**

VOCABULARY / ÌTÚMỌ̀ - ỌRỌ̀

English	Yoruba	English	Yoruba
Acids and Bases	**Ẹ̀kan at'ègbo**	Gas volume	**Àye òyì**
Air	**Afẹ́**	Inorganic chemistry	**Ẹ̀kọ́ ẹ̀là-aláìlèedú**
Alkali	**Aṣọṣẹ**	Laboratory	**Ilé ìmọ̀-jinlẹ̀**
Alkali metals	**Àlùrọ̀ aṣọṣẹ**	Liquid	**Aṣàn**
Alloy	**Àyọ́pọ̀**	Matter	**Ẹ̀dá**
Amalgam	**Àdàlú**	Metal	**Àlùrọ̀**
Analytical chemistry		Mixture	**Àkópọ̀**
Atom	**Átọ̀mù**	Non-metal	**Àdàrọ̀**
Atomic energy	**Agbára átọ̀mù**	Organic chemistry	**Ẹ̀kọ́ ẹ̀là-eléedú**
Base	**Ègbo**	Physical chemistry	**Ẹ̀kọ́-ẹ̀là t'ìṣeṣí-ẹ̀dá**
Biochemistry	**Ẹ̀kọ́ ẹ̀là-ìyè**	Physical science	**Ẹ̀kọ́ ìmọ̀-jìnlẹ̀ ìṣeṣí-ẹ̀dá**
Breeze	**Afẹ́fẹ́**	Product of a reaction	**Èsún-àsè**

ÌWÉ-ÌLÉWỌ́ ẸKỌ́ ÌMỌ̀-JÌNLẸ̀ ÀTI ÌMỌ̀-ẸRỌ́

Changes in Nature	**Àyípadà nnú àyànmọ́**	Reactants	**Èsè-àsè**
Chemical	**ẹlà**	Reaction	**Àsè**
Chemical composition	**Èto-inú ẹlà**	Shape	**Ìrísí**
Chemical equation	**Ọ̀mì ẹlà**	Soap Making	**Ọṣẹ ṣiṣẹ́**
Chemical process		Solid	**Adì**
Chemist	**Akẹ́kọ ẹlà**	Solute	**Gbẹ̀rẹ̀fun; Àìpò**
Chemistry	**Ẹ̀kọ́-ẹlà**	Solution	**Àpòpọ̀**
Colour	**Àwọ̀**	Solvent	**Epo**
Compound	**Àsèpọ̀**	States of matter	**Irú-ipò àwọn ẹ̀dá**
Concentrate	**Láti sọ dògidì**	Substance	**Ẹ̀dá**
Drug	**Oògùn**	Synthesis	**Ìṣẹ̀dá**
Dye	**Aró**	Wind	**Afẹ́fẹ́**
Element	**Ìṣù-átọ̀mù**	Fire	**Iná**
Endothermic reactiom	**Àsè aloná**	Gas	**Òyì**
Energy	**Agbára**	Gas equation	**Ọ̀mì òyì**
Entropy	**Ìdàrú**	Gas Laws	**Àwọn Ofi-òyì**
Exothermic reaction	**Àsè afaná**		

TABLE OF ELEMENTS / ÌTẸ́ ÀWỌN ÌṢÙ-ÁTỌ̀MÙ

ELEMENT	ÌṢÙ-ÁTỌ̀MÙ	ELEMENT	ÌṢÙ-ÁTỌ̀MÙ	ELEMENT	ÌṢÙ-ÁTỌ̀MÙ
Actinium	**Actinium**	Germanium	**Gemania**	Scandium	**Scandia**
Aluminum	**Alumo**	Gold	**goolu; Wura**	Selenium	**Selenia**
Americium	**Amerisia**	Hafnium	**Hafnia**	Silicon	**Silika**
Antimony		Helium	**Helia**	Silver	**Fadaka**
Argon		Holmium	**Holmia**	Phosphorus	
Arsenic		Indium	**India**	Platinum	
Barium	**Báríà**	Iodine	**Iodo**	Plutonium	**Plutonia**
Berkelium	**Bekelia**	Iridium	**Iridia**	Polonium	**Polonia**
Beryllium	**Berilia**	Iron	**Irin**	Potassium	
Bismuth		Krypton		Praseodymium	**Praseodimia**
Boron		Lanthanum		Promethium	**Prometia**
Bromine		Lawrencium	**Laurensia**	Protactinium	**Purotatinia**
Cadmium	**Kadmia**	Lead	**Ojé**	Sodium	**Soda**
Calcium	**Kalsia**	Lithium	**Litia**	Strontium	**Strontia**
Californium	**Kalifonia**	Lutetium	**Lutetia**	Sulfur	**Imi-ọjọ́, Sulfuri**
Carbon	**Eedu**	Magnesium	**Magnesia**	Tantalum	
Cerium	**Ceria**	Manganese		Technetium	**Teknetia**
Cesium	**Cesia**	Mendelevium	**Mendelefia**	Tellurium	**Teluria**
Chlorine	**Òyì-iyọ̀ (Oyiyọ̀)**	Mercury		Terbium	**Tebia**
Chromium	**Cromia**	Molybdenum		Thallium	**Talia**
Cobalt		Neodymium	**Neodimia**	Thorium	**Toria**
Copper	**Kopa, Kobo**	Nickel	**Nikeeli**	Thulium	**Tulia**
Curium	**Curia**	Niobium	**Niobia**	Tin	**Stania**
Dysprosium	**Disprosia**	Nitrogen	**Òyì-ilẹ̀,Oyile**	Titanium	**Titania**
Einsteinium	**Ainstenia**	Nobelium	**Nobelia**	Tungsten	
Element 104	**Ìṣù-átọ̀mù 104**	Osmium	**Osmia**	Uranium	**Urania**
Element 105	**Ìṣù 105**	Oxygen	**Òyì-iná**	Vanadium	**Fanadia**

Element 106	**Ìṣù 106**	Palladium	**Paladia**	Xenon	**Senia**
Erbium	**Ebia**	Radium	**Radia**	Ytterbium	**Yitabia**
Europium	**Europia**	Radon	**Redonu**	Yttrium	**Yitiria**
Fermium	**Femia**	Rhenium	**Renia**	Zinc	
Fluorine		Rhodium	**Rodia**	Zirconium	Saconia
Francium	**Fransia**	Rubidium	**Rubidia**		
Gadolinium	**Gadolinia**	Ruthenium	**Rutenia**		
Gallium	**Galia**	Samarium	**Samaria**		

CHEMISTRY TERMS / ÀWỌN ỊẸ̀NỌ̀ ỊẸ̀KỌ́-ỊLÀ

English	Yoruba	Use	Ìlò
Reaction	**Àsè**	The reaction of A with B produces D	**Àsè A pẹ̀lú B sun D**
React	**Láti se (àwọn èsè)**	React A with B	**Se A pẹ̀lú B**
Product	**Èsún**	The product of the reaction of A with (and) B are D and F	**Èsún àsè A pẹ̀lú (*or* àti) B ni D àti F**
Product of a reaction	**Èsún àsè**	What are the products of the reaction of A and B	**Kini àwọn èsún àsè A àti (*or* pẹ̀lú) B**
Reactant	**Èsè, Èsè-àsè**	What are the reactants that produced D	**Àwọn èsè-àsè wo ló sun D *or* Kini àwọn èsè-àsè tó sun D**
Complete reaction	**Àsè-ìsèparí**		
Incomplete reaction	**Àsè-àìsèparí**		
Reactor	**Abọ́-àsè**		
Equilibrium	**Agbede**		
Equilibrium Point	**Ibi agbede**		
Equilibrium reaction	**Àsè adúrólágbede**		
Equilibrium constant	**Òòkà-àìyẹ̀ ibi-agbede**		
Equilibrium Point	**Ibi agbede**		
Endothermic Reaction	**Àsè aloná**		
Exothermic reaction	**Àsè afaná**		
Energy	**Agbára**		
Heat energy	**Agbára Okun-iná**	Heat = Okun-iná	
Hotness	**Ìgbóná**		
Free energy	**Agbára wíwúlò**		
Gibb's free energy	**Agbára wíwúlò ti Gíbìsì**		
Helmholtz free energy	**Agbára wíwúlò ti Hélmhóòsì**		
Temperature	**Ìgbóná**		
Temperature scale	**Ìdíwọ̀n ìgbóná**		
Entropy	**Ìdàrú**		
Enthalpy	**Agbára *****		
Enthalpy of a reaction			