

SS 1 SCIENCE – SECOND TERM SCHEME OF WORK

New NERDC Approved Senior Secondary Education Curriculum (SSEC) 2025

Federal Republic of Nigeria – Senior Secondary School One (Science Class)

Weeks 1–10 | All Subjects: Core (4) + Trade (1) + Science Field (8) = 13 Subjects Total

About This Term: The Second Term of SS1 Science deepens and extends First Term foundations. English advances into syllable stress, phrasal verbs, and speech writing; Mathematics covers variation, constructions, loci, logical reasoning, and circle theorems; Biology covers detailed digestion, plant and animal reproduction, and growth; Chemistry covers Gas Laws, separation techniques, acids/bases/salts, and water; Physics covers work/energy/power, heat, electric charges/fields, and renewable energy; Agricultural Science covers full crop production (from planting to harvest), pest management, and agricultural finance; Further Mathematics covers sequences/series, linear programming, trigonometry (sine/cosine/compound angle rules), and binary arithmetic. All 13 subjects are covered across Weeks 1–10. Week 7 is mid-term review. Week 11 = General Revision; Weeks 12–13 = Examinations.

Note on Trade Subjects (highlighted in green): Each SS1 student must offer ONE trade subject. All four trade options are shown every week for reference. In the Second Term, trade subjects advance from introductory to intermediate skills: Computer Hardware covers networking and phone repairs; Livestock Farming covers breeding, poultry/fish/pig farming; Beauty & Cosmetology covers waxing, nail art, lash work, and massage; Horticulture covers composting, water management, greenhouses, and vegetable/fruit production.

SECOND TERM WEEKLY SCHEME OF WORK

WEEK	SUBJECT	TOPIC / CONTENT
Week 1	NOTE: Revision of First Term work across all subjects. Teachers review key areas of weakness before introducing new Second Term content.	
	English Language	Revision of First Term grammar, comprehension, and essays; introduction to syllable stress and word stress patterns
	General Mathematics	Revision of indices, sets, and quadratic equations; introduction to variation – direct, inverse, joint, and partial variation
	Citizenship & Heritage Studies	Revision of First Term topics; introduction to constitutionalism – meaning, features, and types of constitution
	Digital Technologies	Revision of word processing and spreadsheets; introduction to database concepts – meaning, uses, and types
	Biology	Revision of cell structure and nutrition; introduction to Second Term focus: Nutrition in Animals – types of nutrition (holozoic, parasitic, saprophytic, symbiotic, autotrophic)
	Chemistry	Revision of atomic structure and periodic table; introduction to Gas Laws – Boyle's Law ($P_1V_1 = P_2V_2$) at constant temperature
	Physics	Revision of motion and density; introduction to Conservation Principles – law of conservation of energy and momentum

	Agricultural Science	Revision of First Term topics; introduction to crop production – pre-planting operations: site selection, land clearing, tillage
	Further Mathematics	Revision of sets, indices, and functions; introduction to Sequences – arithmetic and geometric sequences; general term formula
	Geography	Revision of First Term topics; introduction to the Environment – components: lithosphere, hydrosphere, atmosphere, biosphere
	Foods and Nutrition	Revision of food classes; introduction to meal planning – meaning, principles, and factors to consider (nutritional needs, budget, season, occasion)
	Technical Drawing	Revision of First Term drawing skills; introduction to solid geometry – types of solids: prisms, pyramids, cylinders, cones, spheres
	TRADE: Computer Hardware & GSM Repairs	Revision of First Term topics; introduction to computer networking – types of networks (LAN, WAN, MAN); network topologies (star, bus, ring)
	TRADE: Livestock Farming	Revision of First Term topics; introduction to breeding of livestock – natural and artificial insemination; importance of selective breeding
	TRADE: Beauty & Cosmetology	Revision of First Term topics; introduction to advanced skin treatments – exfoliation, steaming, masks; identifying skin disorders
	TRADE: Horticulture & Crop Production	Revision of First Term topics; introduction to fertilizer use in horticulture – types, application methods, benefits and risks of over-application

WEEK	SUBJECT	TOPIC / CONTENT
Week 2	English Language	Oracy: Syllable stress – words of two syllables stressed on the second syllable; Grammar: Irregular verbs – forms and usage in sentences
	General Mathematics	Variation – direct variation: $y \propto x$; solving problems involving direct variation; graphs of direct variation
	Citizenship & Heritage Studies	Types of constitution – written vs unwritten; rigid vs flexible; unitary vs federal constitutions; examples from Nigeria and other countries
	Digital Technologies	Database management – tables, fields, records; creating a simple database; entering, sorting, and filtering data
	Biology	Nutrition in Animals – holozoic nutrition in detail: ingestion, digestion, absorption, assimilation, and egestion; alimentary canal overview
	Chemistry	Gas Laws – Charles's Law ($V_1/T_1 = V_2/T_2$) at constant pressure; absolute temperature (Kelvin scale); worked examples

	Physics	Work, Energy, and Power – definitions, formulae; joules and watts; kinetic energy ($KE = \frac{1}{2}mv^2$) and potential energy ($PE = mgh$)
	Agricultural Science	Crop production – planting operations: seed treatment, spacing, depth of planting, method of planting (broadcasting, drilling, transplanting)
	Further Mathematics	Arithmetic sequences – common difference; sum of arithmetic series ($S_n = n/2(2a + (n-1)d)$); practical applications
	Geography	Weather – elements (temperature, rainfall, humidity, wind speed/direction, sunshine, cloud cover); weather instruments and their uses
	Foods and Nutrition	Meal planning continued – planning meals for different groups: infants, children, adolescents, pregnant/lactating women, elderly, the sick
	Technical Drawing	Prisms and cylinders – drawing orthographic and isometric views; development (net) of a prism and cylinder
	TRADE: Computer Hardware & GSM Repairs	Network devices – routers, switches, hubs, modems, network cables (Cat5, Cat6); wireless networks (WiFi, Bluetooth); setting up a simple network
	TRADE: Livestock Farming	Livestock breeding – gestation periods of common farm animals; signs of pregnancy; parturition and care of newborn animals
	TRADE: Beauty & Cosmetology	Advanced hair treatments – deep conditioning, hot oil treatment, protein treatments; identifying and treating hair disorders (dandruff, alopecia, breakage)
	TRADE: Horticulture & Crop Production	Composting and organic farming – making compost; advantages of organic fertilizers; organic pest control methods

WEEK	SUBJECT	TOPIC / CONTENT
Week 3	English Language	Vocabulary: Words associated with Christian religion (altar, baptism, communion, confirmation, clergy); Grammar: Complex tense forms – present perfect and past perfect
	General Mathematics	Inverse variation – $y \propto 1/x$; joint and partial variation; solving combined variation problems
	Citizenship & Heritage Studies	Nigerian Constitution – history: 1960, 1963, 1979, 1989, 1999 constitutions; features of the 1999 Constitution (as amended)
	Digital Technologies	Spreadsheet advanced functions – IF, COUNT, COUNTIF, VLOOKUP; creating charts (bar, pie, line) from spreadsheet data

	Biology	The human digestive system in detail – mouth, oesophagus, stomach, small intestine, large intestine; role of enzymes in digestion (amylase, pepsin, lipase)
	Chemistry	General Gas Law ($P_1V_1/T_1 = P_2V_2/T_2$); the ideal gas equation $PV = nRT$; Avogadro's Law; standard temperature and pressure (STP)
	Physics	Conservation of energy – energy transformation examples; efficiency of machines; worked problems on work, energy, and power
	Agricultural Science	Crop production – post-planting operations: weeding methods (manual, chemical, mechanical); reasons for weeding; mulching and its benefits
	Further Mathematics	Geometric sequences – common ratio; sum of geometric series; sum to infinity of a geometric series ($ r < 1$); practical examples
	Geography	Climate – factors affecting climate (latitude, altitude, ocean currents, distance from sea, wind direction, human activities); climate zones of Nigeria
	Foods and Nutrition	Cooking methods – moist heat (boiling, steaming, poaching, stewing); dry heat (baking, roasting, grilling, frying); microwave cooking; effects on nutrients
	Technical Drawing	Pyramids and cones – drawing and developing (net) of a pyramid and cone; truncated solids; intersection of solids
	TRADE: Computer Hardware & GSM Repairs	Internet services – email protocols (SMTP, POP3, IMAP); web protocols (HTTP, HTTPS); cloud computing basics; online security threats and prevention
	TRADE: Livestock Farming	Nutrition for improved livestock production – calculating feed rations; feed conversion ratio; water management for livestock in dry and rainy seasons
	TRADE: Beauty & Cosmetology	Eyebrow threading and shaping – tools and techniques; eyebrow mapping; safety and hygiene; aftercare advice for clients
	TRADE: Horticulture & Crop Production	Water management in the garden – drip irrigation installation; water-saving techniques; rainwater harvesting for small gardens

WEEK	SUBJECT	TOPIC / CONTENT
Week 4	English Language	Vocabulary: Words associated with Islamic religion (Salah, Zakat, Hajj, Ramadan, Ummah, Tawheed); Grammar: Phrasal verbs – Type I (intransitive: give up, break down, go off)
	General Mathematics	Simple linear equations and simultaneous equations review; constructing and solving equations from word problems

	Citizenship & Heritage Studies	Fundamental human rights – categories (civil/political, economic/social/cultural); Chapter IV of the 1999 Constitution; enforcement mechanisms
	Digital Technologies	Presentation design – advanced features: animations, slide transitions, inserting charts and tables; designing an effective classroom presentation
	Biology	Absorption and assimilation – role of the ileum in absorption; villi and microvilli structure; portal circulation; assimilation in liver and tissues
	Chemistry	Standard separation techniques for mixtures – evaporation, crystallization, filtration, distillation, solvent extraction, chromatography; choosing the right method
	Physics	Heat energy – temperature vs heat; thermometers; thermal expansion; specific heat capacity ($Q = mc\Delta T$); latent heat of vaporization and fusion
	Agricultural Science	Fertilizer application – types (organic and inorganic); methods of application (broadcasting, placement, foliar); time of application; risks of over-fertilizing
	Further Mathematics	Linear inequalities in one and two variables – solving algebraically and graphically; linear programming: finding feasible regions; maximizing/minimizing objective functions
	Geography	Nigeria – location and position: latitude and longitude, neighbouring countries, regional bodies (ECOWAS, AU, UN); geopolitical zones
	Foods and Nutrition	Food preservation in the Nigerian context – traditional methods (sun-drying, smoking, salting, fermentation) and modern methods; importance for food security
	Technical Drawing	Sectional views – full section, half section, offset section; section lines/hatching conventions; why sectional views are used in engineering drawing
	TRADE: Computer Hardware & GSM Repairs	Mobile phone software – installing and updating OS (Android/iOS); app management; factory reset; backing up data; transfer of files between devices
	TRADE: Livestock Farming	Livestock farm management – day-to-day management routines; biosecurity measures on the farm; farm records: production, health, financial records
	TRADE: Beauty & Cosmetology	Waxing techniques – types of wax (soft and hard); preparation of skin; application and removal; aftercare and contraindications
	TRADE: Horticulture & Crop Production	Greenhouse/shade house production – meaning, benefits, types of structures; crops suited to greenhouse growing in Nigeria

WEEK	SUBJECT	TOPIC / CONTENT
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Week 5	English Language	Grammar: Phrasal verbs Type II (transitive inseparable: look after, look into, run into); reading comprehension – identifying mood, tone, purpose of writer
	General Mathematics	Constructions – constructing triangles given different combinations (SSS, SAS, ASA, AAS); constructing quadrilaterals; loci
	Citizenship & Heritage Studies	Separation of powers – the three arms of government: Executive, Legislature, Judiciary; checks and balances in Nigerian democracy
	Digital Technologies	Digital communication – email etiquette; online collaboration (Google Docs, shared drives); video conferencing tools; netiquette and cyber safety
	Biology	Reproduction – types: asexual (binary fission, budding, fragmentation, spore formation, vegetative propagation) and sexual reproduction; advantages of each
	Chemistry	Acids, bases, and salts – definitions (Arrhenius, Brønsted-Lowry, Lewis); properties of acids and bases; pH scale; strong vs weak acids and bases
	Physics	Electric charges – types (positive and negative); laws of electrostatics; conductors and insulators; charging by friction, induction, and contact
	Agricultural Science	Irrigation and drainage – meaning; types of irrigation (surface, sprinkler, drip); importance of irrigation; drainage of waterlogged soils
	Further Mathematics	Trigonometry – sine and cosine rules; solving non-right-angled triangles; bearings problems; graphs of sine, cosine, tangent functions
	Geography	Physical setting of Nigeria – relief (highlands, lowlands, river basins); drainage systems (Niger, Benue, Kaduna rivers); vegetation zones
	Foods and Nutrition	Kitchen management – layout of a functional kitchen; equipment care and maintenance; time management while cooking; work plans for meal preparation
	Technical Drawing	Dimensioning – principles and conventions; types of dimensions (linear, angular, radius, diameter); leaders and notation; dimension placement rules
	TRADE: Computer Hardware & GSM Repairs	Soldering skills – types of soldering iron; soldering wire; how to solder and de-solder components; safety precautions; soldering a simple circuit board
	TRADE: Livestock Farming	Processing and value addition of livestock products – milk pasteurization, yoghurt making, egg preservation, meat smoking/drying; adding value to farm produce
	TRADE: Beauty & Cosmetology	Lash and brow treatments – applying lash extensions; eyelash curling; eyebrow tinting; tools, products, and client safety

	TRADE: Horticulture & Crop Production	Cut flower production – types of cut flowers grown in Nigeria; post-harvest handling; packaging and marketing of flowers; floristry basics
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WEEK	SUBJECT	TOPIC / CONTENT
Week 6	English Language	Writing: Descriptive essay – using figurative language (simile, metaphor, personification); describing a scene, person, or event with sensory detail
	General Mathematics	Constructions continued – constructing regular polygons (hexagon, pentagon); problems on loci (equidistant from two points, from a line)
	Citizenship & Heritage Studies	Legislature in Nigeria – structure of the National Assembly (Senate and House of Representatives); functions of the legislature; law-making process
	Digital Technologies	Introduction to coding – block-based programming (Scratch); basic commands: motion, looks, sound, events; building a simple interactive animation
	Biology	Reproduction in flowering plants – parts of a flower and their roles; pollination (self and cross-pollination); fertilization in flowering plants; fruit and seed formation
	Chemistry	Properties and uses of acids – reactions of acids with metals, bases, carbonates; uses of HCl, H ₂ SO ₄ , HNO ₃ in industries and everyday life
	Physics	Electric field and potential – electric field lines; potential difference (voltage); capacitors – meaning, types, charging and discharging
	Agricultural Science	Pest and disease management – integrated pest management (IPM); common crop pests (insects, rodents, birds); diseases (fungal, bacterial, viral); chemical and biological control
	Further Mathematics	Logical reasoning – statements, negation, conjunction, disjunction, implication, biconditional; truth tables; valid arguments; syllogism
	Geography	Population of Nigeria – census figures; population distribution; population growth rate; causes and consequences of rapid population growth; population policy
	Foods and Nutrition	Food service and presentation – table setting (formal and informal); types of meal service; garnishing and decorating dishes; portion control
	Technical Drawing	Development of surfaces (Cont'd) – development of cylinders, cones, and frustums; practical applications in packaging and engineering
	TRADE: Computer Hardware & GSM Repairs	Screen replacement – tools needed; removing cracked screens from phones and laptops; installing new screens; testing after replacement; common mistakes

	TRADE: Livestock Farming	Poultry management in depth – deep litter vs battery cage systems; lighting programs for layers; brooding of chicks; common poultry diseases and vaccination
	TRADE: Beauty & Cosmetology	Nail art and nail extensions – gel nails vs acrylic nails; nail art designs; tools and products; nail health and maintenance between salon visits
	TRADE: Horticulture & Crop Production	Landscaping basics – meaning and principles of landscaping; types of landscapes; plants used in Nigerian landscaping; lawn care and maintenance

WEEK	SUBJECT	TOPIC / CONTENT
Week 7	NOTE: Mid-term review and assessment week. Teachers conduct tests across all subjects, return marked work, and address areas of difficulty.	
	English Language	Mid-term review – syllable stress, irregular verbs, phrasal verbs, vocabulary (religion), comprehension, descriptive essay; mid-term test
	General Mathematics	Mid-term review – variation, constructions, loci; mid-term test
	Citizenship & Heritage Studies	Mid-term review – constitutionalism, Nigerian constitution, human rights, separation of powers, legislature; mid-term test
	Digital Technologies	Mid-term review – databases, advanced spreadsheets, presentation design, digital communication, coding intro; mid-term test
	Biology	Mid-term review – nutrition in animals (digestion, absorption, assimilation), plant reproduction; mid-term test
	Chemistry	Mid-term review – gas laws, separation techniques, acids, bases, and salts; mid-term test
	Physics	Mid-term review – work/energy/power, heat energy, electric charges and fields; mid-term test
	Agricultural Science	Mid-term review – crop production (planting, post-planting, fertilizers, irrigation, pest management); mid-term test
	Further Mathematics	Mid-term review – sequences and series, linear inequalities, linear programming, trigonometry (sine/cosine rules), logic; mid-term test
	Geography	Mid-term review – weather, climate, Nigeria's location, physical setting, population; mid-term test
	Foods and Nutrition	Mid-term review – meal planning, cooking methods, food preservation, kitchen management, food service; mid-term test and practical assessment
	Technical Drawing	Mid-term review – sectional views, dimensioning, development of surfaces; mid-term test with drawing exercises

	TRADE: Computer Hardware & GSM Repairs	Mid-term review and practical assessment – networking, mobile software, soldering, screen replacement; mid-term test
	TRADE: Livestock Farming	Mid-term review and practical assessment – livestock breeding, nutrition, farm management, value addition, poultry; mid-term test
	TRADE: Beauty & Cosmetology	Mid-term review and practical assessment – advanced skin/hair treatments, waxing, eyebrow, lash work, nail art; mid-term test
	TRADE: Horticulture & Crop Production	Mid-term review and practical assessment – fertilizers, composting, water management, greenhouses, cut flowers, landscaping; mid-term test

WEEK	SUBJECT	TOPIC / CONTENT
Week 8	English Language	Vocabulary: Antonyms – words exactly opposite in meaning (hot/cold, heavy/light) and nearly opposite in meaning; Grammar: Semi-formal letters (to clubs, organizations, editors)
	General Mathematics	Logical reasoning – simple and compound statements; negation, conjunction, disjunction, implication; truth tables; application in mathematics
	Citizenship & Heritage Studies	The Executive arm – the President, Vice-President, Federal Executive Council; powers and functions; checks on executive power
	Digital Technologies	Coding continued – loops (repeat, forever); conditionals (if-then-else); variables; building a simple game or quiz using Scratch or block coding
	Biology	Reproduction in animals – asexual reproduction in Hydra (budding) and Amoeba (binary fission); sexual reproduction in fish, frog, and mammals; internal vs external fertilization
	Chemistry	Salts – preparation methods (neutralization, double decomposition, direct combination); soluble and insoluble salts; uses of common salts (NaCl, CaCO ₃ , Na ₂ SO ₄)
	Physics	Electrical continuity testing – using a multimeter; testing for continuity, resistance, voltage; reading a multimeter; practical electrical safety
	Agricultural Science	Harvesting and post-harvest handling – timing, methods; processing farm produce (drying, milling, canning); storage facilities (silos, barns, cold storage)
	Further Mathematics	Calculating and processing devices – history of computing devices (abacus to modern computer); binary number system; binary arithmetic (addition, subtraction)
	Geography	Resources of Nigeria – mineral resources (crude oil, coal, tin, limestone, iron ore); agricultural resources; human resources; conservation

	Foods and Nutrition	Nigerian dishes – preparation of popular Nigerian soups and stews (egusi, ogbono, pepper soup, okra); practical cooking session
	Technical Drawing	Isometric drawing – isometric axes; drawing solids in isometric projection; dimensioning isometric drawings; comparing isometric with orthographic
	TRADE: Computer Hardware & GSM Repairs	Battery diagnostics and replacement – types of batteries (Li-ion, NiMH); testing battery health; replacing laptop and phone batteries; battery safety and disposal
	TRADE: Livestock Farming	Fish farming (aquaculture) in depth – types of fish ponds (earthen, concrete, cage); stocking density; feeding fish; water quality management
	TRADE: Beauty & Cosmetology	Body massage basics – types of massage (Swedish, deep tissue, hot stone); massage techniques (effleurage, petrissage, tapotement); oils and products used
	TRADE: Horticulture & Crop Production	Vegetable gardening – planning a vegetable garden; spacing and companion planting; raised beds; growing tomatoes, peppers, and leafy vegetables commercially

WEEK	SUBJECT	TOPIC / CONTENT
Week 9	English Language	Writing: Speech writing – structure (salutation, introduction, body, conclusion); formal and informal speeches; writing a speech for a school event
	General Mathematics	Plane geometry – circle theorems: angle at centre = $2 \times$ angle at circumference; angles in same segment; angle in semicircle; opposite angles of cyclic quadrilateral
	Citizenship & Heritage Studies	The Judiciary – structure (Supreme Court, Court of Appeal, Federal/State High Courts); functions; independence of the judiciary; rule of law
	Digital Technologies	Introduction to artificial intelligence (AI) – meaning, types (narrow AI, machine learning); examples in daily life; ethical use of AI; AI tools for students
	Biology	Growth and development – meaning; phases of growth (S-curve); primary and secondary growth in plants; growth regulators (auxins, gibberellins, cytokinins)
	Chemistry	Water – water cycle; properties of water (as a solvent, amphoteric nature); hard and soft water; temporary and permanent hardness; treatment of hard water
	Physics	Solar collector and renewable energy – how a solar panel works; photovoltaic cells; solar energy advantages in Nigeria; other renewable energy sources (wind, hydro, biomass)
	Agricultural Science	Agricultural finance and cooperative farming – sources of agricultural credit in Nigeria (NIRSAL, Bank of Agriculture, cooperative societies); crop insurance

	Further Mathematics	Trigonometry continued – compound angles ($\sin(A\pm B)$, $\cos(A\pm B)$, $\tan(A\pm B)$); double angle formulae; solving trigonometric equations; graphs of trig functions
	Geography	The environment and its management – environmental pollution (air, water, land); causes and effects; environmental laws in Nigeria; sustainable development
	Foods and Nutrition	International dishes – preparation of simple international dishes popular in Nigeria (jollof rice variations, fried rice, pasta); food culture and etiquette
	Technical Drawing	Oblique drawing – cavalier and cabinet oblique projections; drawing objects in oblique projection; comparing oblique, isometric, and orthographic views
	TRADE: Computer Hardware & GSM Repairs	Charging port and connector repairs – types of charging ports (USB-C, micro-USB, Lightning); identifying faults; cleaning and replacing charging ports; soldering practice
	TRADE: Livestock Farming	Pig farming basics – breeds of pigs; housing for pigs; feeding; health management; pig products (pork, lard, bristles); market opportunities in Nigeria
	TRADE: Beauty & Cosmetology	Spa and relaxation treatments – aromatherapy; body scrubs; steam treatment; reflexology basics; creating a calming salon atmosphere; client consultation skills
	TRADE: Horticulture & Crop Production	Fruit production – common fruit trees in Nigeria (mango, citrus, pawpaw, guava, avocado); planting, pruning, fertilizing; harvesting and post-harvest handling of fruits

WEEK	SUBJECT	TOPIC / CONTENT
Week 10	English Language	General revision of all Second Term topics – syllable stress, grammar (irregular verbs, phrasal verbs, complex tenses), vocabulary, comprehension, essays, speech writing; revision test
	General Mathematics	General revision of all Second Term topics – variation, constructions, loci, logical reasoning, circle theorems; revision test
	Citizenship & Heritage Studies	General revision of all Second Term topics – constitutionalism, human rights, separation of powers, three arms of government; revision test
	Digital Technologies	General revision of all Second Term topics – databases, advanced spreadsheets, presentation, digital communication, coding, AI; revision test
	Biology	General revision of all Second Term topics – nutrition in animals (digestive system, enzymes, absorption, assimilation), plant and animal reproduction, growth; revision test
	Chemistry	General revision of all Second Term topics – gas laws (Boyle's, Charles's, general gas law), separation techniques, acids/bases/salts, water; revision test

	Physics	General revision of all Second Term topics – work/energy/power, heat energy, electric charges/fields, electrical continuity testing, solar energy/renewable energy; revision test
	Agricultural Science	General revision of all Second Term topics – crop production (planting to harvest), fertilizers, irrigation, pest/disease management, post-harvest handling, agricultural finance; revision test
	Further Mathematics	General revision of all Second Term topics – sequences/series, linear programming, trigonometry (sine/cosine/compound angles), logical reasoning, binary arithmetic; revision test
	Geography	General revision of all Second Term topics – weather/climate, Nigeria (location, physical setting, population, resources), environment and management; revision test
	Foods and Nutrition	General revision of all Second Term topics – meal planning, cooking methods, food preservation, kitchen management, food service, Nigerian and international dishes; revision test and practical evaluation
	Technical Drawing	General revision of all Second Term topics – sectional views, dimensioning, surface development, isometric drawing, oblique drawing; revision test with drawing exercises
	TRADE: Computer Hardware & GSM Repairs	General revision and practical assessment – all Second Term topics: networking, mobile software, soldering, screen/battery/port replacement; comprehensive practical and theory test
	TRADE: Livestock Farming	General revision and practical assessment – all Second Term topics: breeding, nutrition, poultry, fish farming, pig farming, value addition, records; theory and practical test
	TRADE: Beauty & Cosmetology	General revision and practical assessment – all Second Term topics: advanced treatments, waxing, lashes, nail art, massage, spa treatments; theory and practical demonstration test
	TRADE: Horticulture & Crop Production	General revision and practical assessment – all Second Term topics: fertilizers, composting, water management, greenhouses, vegetable/fruit gardening, landscaping; theory and practical test

SECOND TERM SUBJECT OVERVIEW

SUBJECT	SECOND TERM FOCUS AREAS
English Language	Syllable Stress (2, 3, 4-syllable words), Irregular Verbs, Complex Tense Forms, Phrasal Verbs (Types I & II), Vocabulary (Christian/Islamic religion, Antonyms), Comprehension (mood/tone/purpose), Descriptive Essay, Semi-formal Letters, Antonyms, Speech Writing

General Mathematics	Variation (Direct, Inverse, Joint, Partial), Linear/Simultaneous Equations (applied), Constructions (triangles, quadrilaterals, regular polygons), Loci, Logical Reasoning (truth tables, statements, implication), Circle Theorems (5 key theorems)
Citizenship & Heritage Studies	Constitutionalism (types of constitution), History of Nigerian Constitutions (1960–1999), Fundamental Human Rights (Chapter IV), Separation of Powers, Legislature (National Assembly), Executive (President/FEC), Judiciary (structure and independence)
Digital Technologies	Database Management (tables/fields/records), Advanced Spreadsheet Functions (IF, VLOOKUP, charts), Presentation Design (animations/transitions), Digital Communication & Netiquette, Block-based Coding (Scratch – loops, conditionals, variables), Introduction to AI
Biology	Nutrition in Animals (holozoic nutrition, alimentary canal, digestive enzymes, absorption, assimilation, egestion), Plant Reproduction (flower structure, pollination, fertilization, fruit/seed), Animal Reproduction (asexual in Hydra/Amoeba; sexual in fish, frog, mammals), Growth and Development (phases, growth regulators)
Chemistry	Gas Laws (Boyle's, Charles's, General Gas Law, Ideal Gas Equation $PV=nRT$, Avogadro's Law), Separation Techniques (crystallization, distillation, solvent extraction, chromatography), Acids/Bases/Salts (properties, pH scale, reactions, preparation, uses), Water (water cycle, hardness, treatment)
Physics	Work, Energy & Power (formulae, KE, PE, efficiency), Heat Energy (temperature, expansion, specific heat capacity, latent heat), Electric Charges & Fields (laws, conductors/insulators, charging methods, field lines, capacitors), Electrical Continuity Testing (multimeter use), Solar Energy & Renewable Energy Sources
Agricultural Science	Crop Production – Pre-planting (site selection, tillage), Planting (seed treatment, spacing, transplanting), Post-planting (weeding, mulching), Fertilizer Application (organic/inorganic, methods), Irrigation & Drainage (types), Pest & Disease Management (IPM), Harvesting & Post-harvest Handling (storage, processing), Agricultural Finance (NIRSAL, cooperatives, crop insurance)
Further Mathematics	Sequences (arithmetic and geometric, general term, sum), Series (arithmetic/geometric sum, sum to infinity), Linear Inequalities & Linear Programming (feasible regions, objective functions), Trigonometry (sine/cosine rules, compound angles, double angle, trig equations, graphs), Logical Reasoning (statements, truth tables, syllogism), Binary Arithmetic (binary number system, addition/subtraction)
Geography	Weather (elements, instruments), Climate (factors, zones of Nigeria), Nigeria: Location & Position (lat/long, neighbours, geopolitical zones), Physical Setting (relief, drainage), Population (census, distribution, growth rate, policy), Resources (mineral, agricultural, human), Environment & Management (pollution, laws, sustainable development)
Foods and Nutrition	Meal Planning (principles, different age groups/conditions), Cooking Methods (moist/dry heat, microwave), Food Preservation (traditional and modern), Kitchen Management (layout, equipment, time management), Food Service & Presentation (table setting, garnishing), Nigerian Dishes (practical cooking), International Dishes (practical cooking)
Technical Drawing	Solid Geometry (prisms, cylinders, pyramids, cones – orthographic, isometric, development/nets), Sectional Views (full, half, offset section; hatching conventions), Dimensioning (principles, types, notation), Development of Surfaces (cylinder, cone, frustum), Isometric Drawing

	(axes, solids, dimensioning), Oblique Drawing (cavalier/cabinet, comparison with other projections)
TRADE: Computer Hardware & GSM Repairs	Networking (types, topologies, devices, WiFi), Internet Services (protocols, cloud computing, cybersecurity), Mobile Phone Software (OS installation, backup, factory reset), Soldering Skills (types, technique, circuit board practice), Screen Replacement, Mobile Software Management, Battery Diagnostics & Replacement, Charging Port Repairs, AI and Emerging Tech Tools
TRADE: Livestock Farming	Livestock Breeding (natural/artificial insemination, gestation, parturition), Nutrition for Production (feed rations, FCR), Farm Management Routines & Biosecurity, Value Addition (pasteurization, yoghurt, egg preservation), Poultry Management (layer/broiler systems, brooding, diseases), Fish Farming (pond types, stocking, water quality), Pig Farming (breeds, housing, health), Agricultural Financing
TRADE: Beauty & Cosmetology	Advanced Skin Treatments (exfoliation, steaming, disorders), Advanced Hair Treatments (deep conditioning, disorders), Eyebrow Threading/Shaping, Waxing (soft/hard wax, aftercare), Eyelash/Brow Treatments (extensions, tinting), Nail Art & Nail Extensions (gel/acrylic), Body Massage Basics (techniques, oils), Spa & Relaxation Treatments (aromatherapy, reflexology, scrubs)
TRADE: Horticulture & Crop Production	Fertilizers & Composting (organic farming, composting, IPM), Water Management (drip irrigation, rainwater harvesting), Greenhouse/Shade House Production, Cut Flower Production (handling, packaging, floristry), Landscaping Basics (principles, plants, lawn care), Vegetable Gardening (raised beds, companion planting), Fruit Production (citrus, mango, pawpaw, harvesting)

Important Notes: Week 7 = Mid-term Review & Assessment (all subjects). Week 11 = General Revision across all subjects. Week 12 = Second Term Examination (objective and theory). Week 13 = Marking, result compilation, and end-of-term activities. Trade subjects require written and practical assessment.

Abbreviations: SSEC = Senior Secondary Education Curriculum | NERDC = Nigerian Educational Research and Development Council | IPM = Integrated Pest Management | FCR = Feed Conversion Ratio | NIRSAL = Nigeria Incentive-Based Risk Sharing System for Agricultural Lending | AI = Artificial Intelligence

Source: New NERDC Approved SSEC 2025, ismyschoollibrary.wordpress.com (SS1 Scheme – verified 2024/2025), schemeofwork.com SS1 Unified Scheme. Cross-referenced against NERDC.gov.ng SSEC Portal subject listings. For SS1 Science students from the 2025/2026 session onwards.