

BIOLOGY VOCABULARY PROGRESSION

SUBSTANTIVE CONCEPT ANIMALS INCLUDING HUMANS

NURSERY

RECEPTION

YEAR 1

YEAR 2

Children to build on each year - cumulative

Head	Ankles	Similarities	Tier 2	Movement	Tier 3
Eyes	Tail	Brain	Blood	Respiration	Hygiene
Ears	Fur	Heart	Senses	Sensitivity	Larva
Nose	Whiskers	Bones	Young	Growth	Pupa
Mouth	Markings	Bottom	Feathers	Reproduction	Vertebrates
Hair	Grow	Hips	Fur	Excretion	Invertebrates
Arms	Baby	Collar Bone	Scales	Nutrition	Metamorphosis
Hands	Child	Wrist			
Fingers	Adult	Wings	Tier 3	Tier 2	
Legs	Snot	Beak	Mammal	Healthy	
Feet	Tears	Feather	Amphibian	Survive	
Toes	Blood	Gills	Reptile	Exercise	
Shoulders	Same	Living	Carnivore	Heart	
Elbow	Different	Man	Herbivore	Lungs	
Neck	Differences	Woman	Omnivore	Muscles	
Back	Poo	Baby			
Stomach	Wee	Toddler			
Knees	Sick	Child			
		Adult			
		Old			
		Young			

BIOLOGY PROGRESSION

SUBSTANTIVE CONCEPT LIVING THINGS AND THEIR HABITATS

NURSERY

RECEPTION

YEAR 1

YEAR 2

Children to build on each year – cumulative

Forest
Concrete
Tidy
Ruin
Care
Places
Wildlife
Garden
Farm
Seaside
Park
River

Environment
Habitat
Harm
Humans
Nature
Island
Pollution
Polar
Rainforest
Climate
Pollution

Tier 2
Thrive
Depend
Producer
Consume
Prey
Predator
Microhabitat

Tier 3
Oxygen
Nutrition
Respiration
Sensitivity
Reproduction
Excretion

BIOLOGY PROGRESSION

SUBSTANTIVE CONCEPT PLANTS

NURSERY	RECEPTION	YEAR 1	YEAR 2
Children to build on each year - cumulative			
Seeds	Leaves	Plant	Tier 2
Rot	Roots	Tree	Bud
Change	Stem	Fruit	Trunk
Fruit	Petal	Flower	Branch
Vegetable	Life cycle	Living	Bark
Die	Familiar plant names	Grow	Seed
Underground	/vegetation grass, tree, bush,	Buttercup	Wild
Grass	daisy, dandelion, oak	Stinging Nettle	
Conker	Weed	Dandelion	Tier 3
Twig		Daisy	Nutrients
Acorn		Ivy	Stem
		Sunflower	Deciduous
		Tulip	Evergreen
		Pansy	
		Rose	Tree vocab
		Lavender	Crown
			Leaves
			Trunk
			Branches
			Roots
			Respiration
			Reproduction
			Excretion
			Shoot
			Tier 2
			Wither
			Dormant
			Mature
			Bulb
			Anchor
			Sustain
			Tier 3
			Germination
			Perennial
			Carbon dioxide
			Glucose
			Clone

PHYSICS PROGRESSION

SUBSTANTIVE CONCEPT SEASONAL CHANGES AND DAILY WEATHER

NURSERY

RECEPTION

YEAR 1

YEAR 2

Children to build on each year - cumulative

Weather
Day
Night
Light
Dark
Storm
Thunder
Lightning
Rainbow
Cloudy

Autumn
Winter
Spring
Summer
Season
Hibernate
Sun
Rain
Cloud
Snow

Tier 2
Dawn
Dusk
Mild
Rotate
Soaked
Weather

Tier 3
Month
Season

CHEMISTRY PROGRESSION

SUBSTANTIVE CONCEPT EVERYDAY MATERIALS / USES OF EVERYDAY MATERIALS

NURSERY

RECEPTION

YEAR 1

YEAR 2

Children to build on each year - cumulative

Change

Senses

Explore

Mixture

Pinecones

Conkers

Bark

Moss

Hot

Cold

Sort

Materials

Flexible

Experiment

Change

Hard

Soft

Stretch

Bend

Strong

Weak

Tier 2

Absorb

Rough

Smooth

Waterproof

Metal

Plastic

Tier 3

Properties

Opaque

Physical

Transparent

Tier 2

Artificial

Brittle

Extracted

Fabric

Manufactured

Natural

Tier 3

Ceramic

Durable

Inflexible

Reflective

Rigid

Translucent

PHYSICS PROGRESSION

SUBSTANTIVE CONCEPT FORCES

NURSERY

RECEPTION

YEAR 1

YEAR 2

Children to build on each year - cumulative

Splash
Print
Mark
Build
Knock Down
Cogs
Gears
Join
Work
Turn

Push
Pull
Tools
Together
Apart
Connect
Electricity
Battery
Float
Sink

WORKING SCIENTIFICALLY

NURSERY AND RECEPTION – CHILDREN SHOULD BE EXPOSED TO THESE WORDS AND USE SOME IN A SCIENTIFIC CONTEXT

NURSERY

RECEPTION

YEAR 1

YEAR 2

Children to build on each year - cumulative

LOOK CLOSELY
OBSERVE
WATCH
TOUCH
FEEL
SMELL
LISTEN
SAME
DIFFERENT
COMPARE
ASK QUESTIONS
RECORD
SORT GROUP

OBSERVE
CHANGES
PATTERNS
GROUPING
SORTING
COMPARE
SAME
DIFFERENT
IDENTIFY (NAME)
MEASURE
DATA
RECORD RESULTS
DRAWING
PICTURE
TABLE
TALLY CHART
PRESENT
PICTOGRAM
BLOCK CHART
VENN DIAGRAM
ASK QUESTIONS
TEST

INVESTIGATE
EXPLORE
EQUIPMENT
RESOURCES
MAGNIFYING GLASS
RULER
TAPE MEASURE
METRE STICK
PIPETTE
SYRINGE
SPOON
TEASPOON
ANSWER QUESTIONS
INTERPRET RESULTS
SCIENTIFIC ENQUIRY
PATTERN SEEKING
COMPARATIVE TESTING
OBSERVING OVER TIME
CLASSIFYING
RESEARCHING USING
SECONDARY SOURCES

