Nightingale Federation Curriculum Vocabulary for Science

Diocese of Norwich Education and Academies Trust

	Autumn	Spring	Summer
Year 1	**Everyday Materials (1.1)** material object fabric glass metal paper plastic rock stone wood properties bendy dull hard rough shiny smooth soft stiff stretchy absorbent investigate transparent waterproof test compare group sort	**Amazing Animals (1.3)** animal react reproduce categories characteristic compare amphibian bird fish mammal reptile cold-blooded gills lungs backbone warm blooded beak claws feathers warm-blooded wings fin freshwater gills scales carnivore herbivore omnivore teeth	**Seasons: Spring & Summer (1.4)** spring summer cooler daylight warmer birdsong blossom bud ducklings frogspawn average degrees Celsius rainfall Sun crop fruit harvest seasonal vegetable activities affect celebrations festivals hobbies
	Seasons: Autumn & Winter (1.2) season autumn winter month year colder forecast weather berries fruit fungi migration nuts daylight longer shorter temperature active hibernate		**Plants (1.5)** flower fruit grow living thing plant soil bulbs leaves roots seeds stem garden plant insects lavender rose sunflower sweet pea buttercup daisy dandelion poppy wild plant bark blossom deciduous evergreen identify tree trunk clothing cotton farmer food medicine use

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Year 2

Uses of Materials (2.1)

suitable
suitability
unsuitable
bend
flexible
rigid
shape
squash
stretch

twist
pledge
pollution
recycle
rubbish
discover
invention
inventor
scientist

Animals and Survival (2.2)

essential
non-essential
oxygen
shelter
survive
adult
baby
life cycle
offspring
teenager
toddler
blood vessels
bones
exercise

heart
heart rate
muscles
pulse
balanced diet
carbohydrates
fats and sugars
fruit and vegetables
nutrients
protein
vitamins and minerals
germs (microbes)
hygiene
spread

Habitats (2.3)

attached
dead
living
never lived
growth
life processes
movement
nutrition
reproduction
sensitivity
coast
farmland
habitat
needs
urban
woodland
habitat
microhabitat
minibeasts

compost
decaying
earthworm
soil
wormery
Arctic
desert
needs
polar
Sahara
carnivore
depend
food chain
herbivore
omnivore
predator
prey
deciduous
season
United Kingdom

Protecting the Environment (2.4)

environment
habitat
pests
rural
urban
wildlife
extinction
incineration
landfill
recycling
waste
dams
efficient
energy
sewage

wastewater
water
eco-home
electricity
energy
fossil fuels
non-renewable
renewable
resource
carbon dioxide
fuel
oxygen
timber
effect
environmentally friendly
pledge

Plants and Growth (2.5)

seedling
anchor
dissect
embryo (baby plant)
seed coat
shoot
sprout
conditions
dormant

germinate
germination
prediction
survive
dispersal
life cycle
reproduction
expedition
instructions

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Year 3

Skeletons, Muscles and Nutrition (3.1)

bone
cartilage
common names of bones
skeleton
ball-and-socket joint
hinge joint
joint
movement
protection
support
ligament
muscle tendon
endoskeleton
exoskeleton
invertebrate
vertebrate
balanced diet
carbohydrate
fat
fibre
minerals
nutrition
protein
vitamins
carnivore
food chain
herbivore
omnivore

Light and Shadows (3.3)

artificial light source
brightness
darkness
natural light source
ray
ultraviolet (UV) light
iris
pupil
reflect
opaque
translucent
transparent
shadow
sundial
absorb
matt
non-reflective
reflect
reflective
shiny
image
mirror
reflection
periscope

Plants – Needs for Survival (3.4)

flower
leaves
nutrients
roots
stem
water transport
photosynthesis
producer
anther
Fertilisation
ovary
ovule
pollen
pollination
stigma
style,
germination
life cycle
seed dispersal

Rocks and Fossils (3.2)

crystal
grain
mineral
molten
rock
durable
erosion
igneous rock
metamorphic rock
sediment
sedimentary rock
weathering
impermeable
permeable
properties
fossil
fossilisation
palaeontologist
remains
absorb
soil

Forces and Magnets (3.5)

force
push
pull
twist
friction
gravity
attract
like poles
magnet
opposite poles
pole
repel
attract
magnetic material
magnetic field
compass

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Year 4

Teeth and Digestion (4.1)

adult teeth
canines
incisors
milk teeth
molars
premolars
wisdom teeth
crown
dentine
enamel
plaque
pulp
root
acid
sugar
carnivore
herbivore
omnivore
digestive system
large intestine
nutrients
oesophagus
rectum
small intestine
stomach

States of Matter (4.2)

gas
liquid
solid
states of matter
degrees Celsius
freezing
temperature
viscosity
material
melting
melting point
rate
evaporation
condensation
precipitation
water cycle
water vapour

Living Things and Environments (4.3)

characteristic
organism
MRS GREN
ecosystem
habitat
microhabitat
consumer
food web
predator
prey
producer
annelid
arachnid
mollusc
classification
identify
species
flowering
non-flowering
deforestation
environment
natural / human
pollution
positive / negative
atmosphere
carbon dioxide
global warming
impact
organisms
protect

Sound (4.4)

musical instruments
tuning fork
sound
strings
vibrations
vocal chords
gas
liquid
solid
sound waves
vibrate
cochlea
ear canal
eardrum
inner ear
middle ear
nerve
outer ear
decibel (dB)
distance
volume
pitch

Electricity (4.5)

appliance
battery electricity
electrical appliance
electricity
mains electricity
wires
battery (cell)
buzzer
circuit
component
mains
motor
complete circuit
incomplete circuit
predict
switch
brighter
dimmer
light bulb
conductor
conducts
insulates
insulator
material

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Year 5

Earth and Space (5.1)

orbit
gas
inner
outer
Solar System
axis
day
crescent
gibbous
lunar month
moon
satellite
waning
waxing
galaxy
geocentric model
heliocentric model
universe

Forces (5.2)

gravity
mass
newton meter
newtons
weight
friction
air resistance
streamlined
water resistance
cogs
effort
fulcrum
gear
lever
load
pulley

Materials (5.3)

material
property
synthetic
conductor
insulator
metal
magnetic
magnetic field
dissolve
evaporation
insoluble
soluble
solute
solution
solvent
filtration
mixture
separate
mixture
sieving
irreversible
reversible

Life Cycles (5.4)

asexual reproduction
embryo
life cycle
offspring
sexual reproduction
species
fertilisation
larva
metamorphosis
pupa
pistil
pollination
spores
stamen
dispersal
germination
environmentalist
naturalist

Growing Older (5.5)

adolescence
adulthood
foetus
puberty
umbilical cord
uterus
gestation period
ovum
sperm
litter
pregnant
breasts
menstruation (period)
penis
puberty
pubic hair
testicles
vulva
hormones
ability
bone mass
fertility

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Year 6

Light & Perception (6.1)

luminous
non-luminous
opaque
incident ray
reflection
reflected ray
illusion

refraction
absorb
colour
prism
artificial light
environment
light pollution

Classification (6.2)

characteristic
microorganism
organism
species
cold-blooded
warm-blooded
annelid,

arthropod
crustacean
flowering
non-flowering
pollinate
bacteria
virus

Evolution & Inheritance (6.3)

extinct
fossil
palaeontologist
palaeontology
characteristic
trait
variation
inheritance
offspring
adaptation

environment
habitat
adaptation
survive
camouflage
natural selection
organism
evolution
theory
endangered

Electricity (6.4)

electricity
electrical appliance
energy
generate
electrical current
fossil fuel
non-renewable
renewable
resource
solar power
tidal power
wind power

circuit
complete circuit
component
series circuit
simple circuit
buzzer
cell
light bulb
motor
switch
symbol
wire

Circulation & Lifestyle (6.5)

blood
blood vessel
circulates
circulation
circulatory system
heart
oxygen
valve
platelet
plasma
red blood cell
white blood cell

artery
capillary
vein
heartbeat
heart rate
pulse
addiction
drug
illegal
legal
medical
painkiller
recreational