NATURAL SCIENCES GRADE 7 TERM 1 Tracker

	Week 1												
	CAPS	Yea	ar:				Yea	ar:					
CAPS Concepts and Activities	Page			Class	S			(Class				
CAPS Concepts and Activities	no.												
	110.	D	ate (Com	plet	ed	D	ate (Com	plete	ed		
Week 1 Lesson A													
Topic: The biosphere	17												
Content and Concepts: The concept of													
the biosphere													
 The biosphere is where life exists and includes the lithosphere (soil and rocks), 													
hydrosphere (water), and atmosphere													
(gases)													
• It also includes all living organisms, and													
dead organic matter													
Week 1 Lesson B													
Topic: The biosphere	17												
Content and Concepts: The concept of													
the biosphereThere are many different kinds of living													
things including plants, animals,													
microorganisms													
All living things can carry out all the													
seven life processes: nutrition (feeding),													
growth, reproduction, respiration (energy production), excretion,													
sensitivity (to the environment),													
movement													
Week 1 Lesson C													
Topic: The biosphere	17												
Content and Concepts: Requirements of													
sustaining life													
• Living things need energy, gases, water, soil and favourable temperatures													
 Living things are suited (adapted) to the 													
environment in which they live, such as													
fish have fins to move easily through													
water													
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What will you do to support or extend learners? Did work set for the week? If not, how will you get back		li the											
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	Week 2										
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Week 2 Lesson A											
Topic: Biodiversity	17										
Content and Concepts: Classification of											
living things											
Plants, animals and microorganisms, and their habitats make up the total											
biodiversity of the Earth											
• Living organisms are sorted and classified											
according to their shared characteristics											
Week 2 Lesson B											
Topic: Biodiversity	17										
Content and Concepts: Classification of											
living things											
• Living organisms are sorted and classified											
according to their shared characteristics											
 Scientists have grouped the organisms into a classification system 											
The five main groups (called Kingdoms)											
of living organisms include Bacteria,											
Protista, Fungi, Plants and Animals											
Basic differences in processes such as movement, nutrition and reproduction,											
distinguishes plants from animals											
• Kingdoms are further subdivided into											
Phyla/Divisions, then Classes, then											
Families, then Orders, then Genera, and the smallest group is Species											
Week 2 Lesson C											
Topic: Biodiversity	18										
Content and Concepts: Diversity of											
animals											
 Animals are classified as either vertebrates (animals with backbones) or 											
invertebrates (animals with backbones) of											
backbones)											
Vertebrates are subdivided into five desses on the basis of distinguishing											
classes on the basis of distinguishing characteristics: Fish, Amphibians,											
Reptiles											

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Week 3 Lesson A											
 Topic: Biodiversity Content and Concepts: Diversity of animals Animals are classified as either vertebrates (animals with backbones) or 	18										
 invertebrates (animals without backbones) Vertebrates are subdivided into five classes on the basis of distinguishing characteristics: Birds, Mammals 											
Week 3 Lesson B											
 Topic: Biodiversity Content and Concepts: Diversity of animals Animals are classified as either vertebrates (animals with backbones) or invertebrates (animals without backbones) Invertebrates are subdivided into the Phyla Arthropoda and Mollusca, on the basis of distinguishing characteristics Molluscs are soft bodied animals such as snails 	18										
Week 3 Lesson C											
 Topic: Biodiversity Content and Concepts: Diversity of animals Animals are classified as either vertebrates (animals with backbones) or invertebrates (animals without backbones) Invertebrates are subdivided into the Phyla Arthropoda and Mollusca, on the basis of distinguishing characteristics Arthropods have a hard-outer covering (exoskeleton) and jointed legs, such as Insects (locust), Arachnids (spider), Crustaceans (crab) 	18										

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Think about and make a note of: What went well? What did not go well? What did the learners find difficult or easy to understand or do? What will you do to support or extend learners? Did you cover all the work set for the week? If not, how will you get back on track?	What will you change next time	? Why?
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	Week 4	ļ											
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Week 4 Lesson A													
Topic: Biodiversity	18												
Content and Concepts: Diversity of													
animals													
Animals are classified as either													
vertebrates (animals with backbones) or invertebrates (animals without													
backbones)													
Invertebrates are subdivided into the													
Phyla Arthropoda and Mollusca, on the													
basis of distinguishing characteristics													
 Arthropods have a hard-outer covering (exoskeleton) and jointed legs, such as 													
Insects (locust), Arachnids (spider),													
Crustaceans (crab)													
Week 4 Lesson B													
Topic: Biodiversity	18												
Content and Concepts: Diversity of													
plants													
 Plants are classified as plants with seeds (such as maize) or plants without seeds 													
(such as ferns)													
Week 4 Lesson C													
Topic: Biodiversity	18												
Content and Concepts: Diversity of													
plants													
 Plants with seeds are Angiosperms (flowering plants) and Gymnosperms 													
(cone bearing plants such as the cycad)													
Plants can produce their seeds in flowers													
(Angiosperms) or in cones													
(Gymnosperms)													
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Week 5 Lesson A											
Topic: Biodiversity	18										
Content and Concepts: Diversity of											
plants											
 Angiosperms consist of two major 											
groups, dicotyledons and											
monocotyledons. These groups differ											
with respect to their roots, stems, leaves,											
flowers, fruits and seeds [Note: Emphasise local and other South											
African examples]											
Week 5 Lesson B											
Topic: Sexual reproduction	19										
Content and Concepts: Sexual											
reproduction in Angiosperms											
• Seeds are produced in flowers, which are											
the sexual organs of Angiosperms											
The components of a flower usually											
include: o male structures called stamens											
for producing pollen (containing											
male sex cells)											
 female structures called stigma 											
(for receiving pollen), style and											
ovary (for producing female sex											
cells)											
 petals (for attracting pollinators) sepals (for protecting the flower 											
bud)											
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Week 5 Lesson C											
Topic: Sexual reproduction	19										
Content and Concepts: Sexual											
reproduction in Angiosperms											
• Pollination and fertilisation are essential											
processes for flowers to produce seeds											
 Pollination is the transfer of pollen 											
between plants of the same species for											
the purpose of fertilisation											
Wind and water can facilitate pollination											
• Fertilisation is the fusion of the male and											
female sex cells to produce seeds											
During fertilization the following											
happens: each mature pollen grain											
contains two male sex cells. When the											
pollen attaches to the stigma of a flower											
from the same species, the pollen											
produces a pollen tube, which grows down the neck of the style, transporting											
the male sex cells to the ovule. Within											
the embryo sac of the ovule, one male											
sex cell fertilizes the egg, which develops											
into a seed. The other male sex cell											
unites with two cells in the embryo sac											
and this results in the development of											
the endosperm, the starchy food that											
feeds the developing seed. The ovary											
enlarges and becomes a fruit.											
	Reflectio	on									
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Think about and make a note of: What went well? N	Vhat did not	go	W	'hat w	ill vou	u char	nge ne	xt tim	e? W	hv?	
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	Week 6	5										
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Week 6 Lesson A												
Topic: Sexual reproduction	19											
Content and Concepts: Sexual												
reproduction in Angiosperms												
Pollination can also be aided by												
pollinators such as insects, birds, mammals												
 Flowers have special adaptations to 												
promote pollination, such as large												
colourful petals, scent and sweet nectar												
to attract insects and birds												
Pollinators play an important role in the production of food groups (such as mains)												
production of food crops (such as maize) for humans												
Week 6 Lesson B												
Topic: Sexual reproduction	19											
Content and Concepts: Sexual												
reproduction in Angiosperms												
• Fertilisation is the fusion of the male and												
female sex cells to produce seeds												
The seeds are contained in fruit												
 Fruits and seeds are dispersed in various ways 												
Week 6 Lesson C												
Topic: Sexual reproduction	20											
Content and Concepts: Human												
reproduction												
Puberty is the stage in the human life												
cycle when sexual organs mature for												
reproductionHumans also experience drastic physical												
and emotional changes during this stage												
	Reflectio	n	1		1					1		
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Think about and make a note of: What went well? W well? What did the learners find difficult or easy to u				/nat w	/III you	u cnar	ige ne	ext tim	e? w	ny?		
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CAPS Concepts and Activities	Page										
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Week 7 Lesson A											
Topic: Sexual reproduction	20										
Content and Concepts: Human											
 reproduction The main purpose of reproduction is for 											
the sperm (male sex cell) and egg (female											
sex cell) to combine, develop and											
produce a baby											
• The female reproductive organs include the vagina, uterus, ovaries (contain egg											
cells/ ova)											
Week 7 Lesson B	20										
Topic: Sexual reproduction Content and Concepts: Human	20										
reproduction											
• The main purpose of reproduction is for											
the sperm (male sex cell) and egg (female											
sex cell) to combine, develop and produce a baby											
 The male reproductive organs include the 											
penis and the testis (produces sperm											
cells)											
Week 7 Lesson C											
Topic: Sexual reproduction	20										
Content and Concepts: Human											
reproduction											
• The main purpose of reproduction is for the sperm (male sex cell) and egg (female											
sex cell) to combine, develop and											
produce a baby											
• Fertilisation is a process when the sperm fuses with the egg											
 The uterus develops a thick layer of 											
blood in preparation for a fertilised egg											
• If fertilisation does not take place,											
menstruation occurs. The thick layer of blood breaks down and is released											
through the vagina											
• If fertilisation takes place, the fertilised											
egg is embedded (implanted) in the											
blood lining of the uterus. This leads to											
pregnancy											

Reflection		
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	Week 8	3										
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Week 8 Lesson A												
 Topic: Sexual reproduction Content and Concepts: Human reproduction If fertilisation takes place, the fertilised egg is embedded (implanted) in the blood lining of the uterus. This leads to Pregnancy Pregnancy can be prevented by using contraceptives such as condoms to prevent the sperm reaching the egg 	20											
Week 8 Lesson B												
 Topic: Sexual reproduction Content and Concepts: Human reproduction If fertilisation does not take place, menstruation occurs. The thick layer of blood breaks down and is released through the vagina 	20											
Week 8 Lesson C												
 Topic: Sexual reproduction Content and Concepts: Human reproduction Pregnancy can be prevented by using contraceptives such as condoms to prevent the sperm reaching the egg Condoms also prevent the transmission of HIV/AIDS and other STDs (sexually transmitted diseases), if used effectively [Note: It is important that learners understand that early sexual activity can have serious consequences. Learners need to know enough about this topic to be able to make informed decisions and responsible choices 	20											

Reflection		
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Think about and make a note of: What went well? What did not go well? What did the learners find difficult or easy to understand or do? What will you do to support or extend learners? Did you cover all the work set for the week? If not, how will you get back on track?	What will you change next time	?? Why?
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Week 9												
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Week 9 Lesson A												
Topic: Variation	21											
Content and Concepts: Variations exists												
within a species												
A species is a category within the												
classification systemLiving things of the same type belong to												
the same species. For example, humans												
are one species and dogs are another												
species												
Individuals of the same species can												
reproduce to make more individuals of the same species												
 All people are human (Homo sapiens) 												
and belong to the same species												
Week 9 Lesson B												
Topic: Variation	21											
Content and Concepts: Variations exists												
within a species												
• Differences between living things of the												
same species is called variationVariation amongst humans can be												
inherited. Some inherited characteristics												
are height and tongue-rolling												
Week 9 Lesson C												
Topic: Variation	21											
Content and Concepts: Variations exists												
within a species												
Differences between living things of the some encines is called variation												
same species is called variation	Reflectio	n										
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Think about and make a note of: What went well? What did not go What will you change next time? Why? What will you do to support or extend learners? Did you cover all the What will you change next time? Why? Work set for the week? If not, how will you get back on track? What will you change next time? Why? HOD: Date:	Year:		
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Week 10													
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Week 10 Lesson A													
Topic: Revision	17-21												
Week 10 Lesson B													
Topic: Revision	17-21												
Week 10 Lesson C													
Topic: Revision	17-21												
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