NATURAL SCIENCES GRADE 7 TERM 4 Tracker

Week 1													
	CARC	Yea	r:				Year:						
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CAPS Concepts and Activities	Page												
	no.	Da	ite (Comp	olete	ed	D	ate C	Com	olete	ed .		
Week 1 Lesson A													
Topic: Relationship of the Sun to the	31												
Earth													
Content & Concepts: Solar energy and the Earth's seasons													
The Earth receives energy from the Sun													
in the form of heat and light (solar													
energy)													
			_						_				
Week 1 Lesson B	31												
Topic: Relationship of the Sun to the Earth	31												
Content & Concepts: Solar energy and													
the Earth's seasons													
The Earth spins on its axis once per day													
The Earth's axis is an imaginary line that goes through the centre of the Farth													
goes through the centre of the Earth from the north pole to the south pole													
The Earth's axis is not vertical, it is tilted													
from the vertical by an angle of 23,5º													
Week Alexand													
Week 1 Lesson C	31												
Topic: Relationship of the Sun to the Earth	32												
Content & Concepts: Solar energy and													
the Earth's seasons													
The Sun radiates heat and light in all													
directions The tilt of the Earth's axis does not													
change as the Earth orbits around the													
Sun													
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Year:	Reflection	on											
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Think about and make a note of: What went well? W		_	W	hat w	ill you	ı char	nge ne	xt tim	e? W	hy?			
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work set for the week? If not, how will you get back	on track?												
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	HOD:	Date:

	Week 2											
	CADC	Yea	r:				Year:					
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CAPS Concepts and Activities	Page											
	no.	Da	ite (Com	olete	ed	D	ate C	Com	ed		
Week 2 Lesson A												
Topic: Relationship of the Sun to the	32											
Earth												
Content & Concepts: Solar energy and												
the Earth's seasons												
When the solar energy falls more directly the soluthorn homisphere, the solar												
on the southern hemisphere, the solar energy is spread over a smaller area and												
it is summer in the southern hemisphere												
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Week 2 Lesson B												
Topic: Relationship of the Sun to the	31											
Earth												
Content & Concepts: Solar energy and												
the Earth's seasons												
When the solar energy falls obliquely (at an outcome angle) on the southern												
an extreme angle) on the southern hemisphere, the solar energy is spread												
over a wider area and it is winter in the												
southern hemisphere												
Week 2 Lesson C												
Topic: Relationship of the Sun to the	31											
Earth												
Content & Concepts: Solar energy and the Earth's seasons												
Due to the tilt of the Earth, the intensity												
of the solar energy (amount per unit												
area) that reaches different parts of the												
Earth changes through the year												
	Reflection	n										
Year:												
Think about and make a note of: What went well? W		-	W	hat w	ill you	ı char	ige ne	xt tim	e? W	hy?		
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work set for the week? If not, how will you get back of		ii tiie										
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NECT LEARNING PROGRAMME: NATURAL SCIENCES GRADE 7 TERM 4 TRACKER

Year:		
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	HOD:	Date:

	Week 3												
	CAPS	Yea	r:				Yea	Year:					
CAPS Concepts and Activities	Page		(Class	5			(5				
CAI 5 concepts and Activities	no.												
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Week 3 Lesson A													
Topic: Relationship of the Sun to the	31												
Earth													
Content & Concepts: Solar energy and the Earth's seasons													
Differing intensities of solar energy													
reaching the southern and northern													
hemispheres through the year lead to the													
four seasons													
Week 3 Lesson B													
Topic: Relationship of the Sun to the	31												
Earth													
Content & Concepts: Solar energy and the Earth's seasons													
The length of the day also depends upon													
the season. In summer, days are longer													
than in winter. This is also caused by the													
tilt of the Earth's axis													
Week 3 Lesson C													
Topic: Relationship of the Sun to the	31												
Earth													
Content & Concepts: Solar energy and the life on Earth													
Plants absorb light from the Sun and													
produce energy-containing food (refer to													
Grade 8)													
	Reflection	n											
Year:													
Think about and make a note of: What went well? W	hat did not	go	W	/hat w	ill voi	ı char	nge ne	xt tim	ie? W	hv?			
well? What did the learners find difficult or easy to u	nderstand o	or do?			,		.60			,.			
What will you do to support or extend learners? Did work set for the week? If not, how will you get back or the week?		ll the											
work set for the week: If not, now will you get back	on track:												
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NECT LEARNING PROGRAMME: NATURAL SCIENCES GRADE 7 TERM 4 TRACKER

Year:		
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?
	HOD:	Date:

	Week 4												
		Yea	ar:				Year:						
	CAPS			Class	5				Class	5			
CAPS Concepts and Activities	Page												
	no.	Di	ate (Com	olete	ed	D	ate (Com	olete	ed		
Week 4 Lesson A													
Topic: Relationship of the Sun to the	31												
Earth													
Content & Concepts: Solar energy and													
the life on Earth													
All plants and animals depend on this process for their energy (refer to Grade													
8)													
The Sun's energy sustains all life on Earth													
Wools 4 Lossey B													
Week 4 Lesson B Topic: Relationship of the Sun to the	31												
Earth	31												
Content & Concepts: Stored solar energy													
Dead plants and animals can eventually													
form coal, oil or gas (fossil fuels) after													
millions of years													
This happens when:the remains of dead plants and													
animals are covered by layers of													
mud and soil													
 the layers press down on these 													
remains o more layers lead to increased													
pressure													
 increased pressure, over long 													
periods of time, changes these													
remains into coal, oil or gas													
The coal, oil and gas store energy from the Sun that was absorbed by plants													
millions of years ago													
, ,													
Week 4 Lesson C	31												
Topic: Relationship of the Sun to the Earth	21												
Content & Concepts: Stored solar energy													
Humans are using this store of energy													
(coal, oil and gas) faster than it is being													
formed (non-renewable resource)													

Reflection		
Year:		
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	e? Why?
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	Week 5												
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CAPS Concepts and Activities	Page												
	no.	Da	te C	Com	olete	ed	D	ate (Com	olete	ed		
Week 5 Lesson A													
Topic: Relationship of the Moon to the	31												
Earth	32												
 Content & Concepts: Relative positions The Moon revolves around the Earth in its orbit 													
Week 5 Lesson B													
Topic: Relationship of the Moon to the Earth	32												
 Content & Concepts: Gravity The Moon is held in its orbit around the Earth by the pull of the Earth's gravity 													
Week 5 Lesson C	22												
Topic: Relationship of the Moon to the Earth	32 33												
Content & Concepts: Gravity													
Gravity is the tendency of all objects to													
attract (pull) each other													
The Moon also has its own gravity													
	Reflection	n											
Year:													
Think about and make a note of: What went well? Well? What did the learners find difficult or easy to use What will you do to support or extend learners? Did work set for the week? If not, how will you get back	ınderstand o you cover a	r do?							hy?				
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	Week 6										
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CAPS Concepts and Activities	Page										
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Week 6 Lesson A					0.000					51000	
Topic: Relationship of the Moon to the	32										
Earth	33										
 Content & Concepts: Gravity The pull of gravity depends on how much mass each object has and how far apart they are more massive objects exert a stronger pull than smaller objects over the same distance for objects of the same mass, the closer they are to each other, the stronger is the pull of gravity between them The Earth is held in its orbit around the Sun by the pull of the Sun's gravity 											
Week 6 Lesson B Topic: Relationship of the Moon to the	33										
 Earth Content & Concepts: Tides Tides are the predictable, repeated rise and fall of sea and ocean levels Tides on earth are caused mainly by the gravity of the Moon The gravity of the Moon pulls on the water in the seas and oceans on Earth This pull causes the earth to experience high and low tides in the oceans. There are usually two high tides and two low tides over a day and a night When the moon is aligned with (in line with) the sun (at Full Moon and New Moon), the Sun's gravity adds to the Moon's gravity. This causes higher than usual high tides and extra-low low tides (spring tides) 											
Week 6 Lesson C	22										
Topic: Relationship of the Moon to the Earth Content & Concepts: Tides Tides sustain unique shoreline ecosystems between the high and low water levels	33										

Reflection		
Year:		
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 7													
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CAPS Concepts and Activities	Page												
	no.	Di	ate (Com	olete	ed	D	ate (Com	olete	ed		
Week 7 Lesson A													
Topic: Historical development of	34												
astronomy													
Content & Concepts: Early indigenous													
knowledge													
The Moon and Sun and stars seem to													
move in predictable patterns o a year (a time period that includes													
the four seasons)													
o a month (a time period from one full													
moon to the next full moon)													
o a day (a time period from one													
sunrise to the next sunrise)People observed these patterns and used													
them to measure time and develop													
different calendars													
Week 7 Lesson B													
Topic: Historical development of	34												
astronomy													
Content & Concepts: Early indigenous													
knowledge													
 People used these patterns in different ways such as to denote time for planting, 													
finding direction and special holy days													
people passed this knowledge on using													
stories													
Week 7 Lesson C													
Topic: Historical development of	34												
astronomy													
Content & Concepts: Modern													
developments													
 People have made and continue to make important discoveries in astronomy 													
	Reflection	n											
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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				/hat w	ill you	ı char	ige ne	xt tim	ie? W	hy?			
What will you do to support or extend learners? Did													
work set for the week? If not, how will you get back of	on track?												
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Year:		
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	e? Why?
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	Week 8	3									
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		Class				Class					
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Week 8 Lesson A											
Topic: Historical development of	34										
astronomy Content & Concepts: Modern developments People have made and continue to make important discoveries in astronomy Copernicus suggested that the Sun is at the centre of the Solar System (1514) Galilei made the first telescope to observe planets and their moons (1610) Kepler used mathematics to describe orbits accurately (1609) Newton showed that gravity held the											
Solar System together (1687)											
Week 8 Lesson B	34										
Topic: Historical development of astronomy Content & Concepts: Modern developments • People have made and continue to make important discoveries in astronomy • Copernicus suggested that the Sun is at the centre of the Solar System (1514) • Galilei made the first telescope to observe planets and their moons (1610) • Kepler used mathematics to describe orbits accurately (1609) • Newton showed that gravity held the Solar System together (1687)											
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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	
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Week 9														
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CAPS Concepts and Activities	CAPS		(Class	5				Class	5				
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Week 9 Lesson A														
Topic: Revision and Study	26-34													
Week 9 Lesson B														
Topic: Revision and Study	26-34													
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Week 9 Lesson C	26.24													
Topic: Revision and Study	26-34													
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Year:	Reflection	Ш												
Think about and make a note of: What went well? W well? What did the learners find difficult or easy to u			W	hat w	ill you	ı char	ige ne	xt tim	e? W	hy?				
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Week 10											
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CAPS Concepts and Activities	Page										
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	Reflectio	n									
Year:											
Think about and make a note of: What went well? well? What did the learners find difficult or easy to What will you do to support or extend learners? Di work set for the week? If not, how will you get bac		,		nge next t							
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