# NATURAL SCIENCES

GRADE 8 TERM 4
Tracker

		Week 1											
l		CADC	Year:					Year:					
	CARC Companies and Assisting	CAPS		(	Class	5			(	Class	5		
	CAPS Concepts and Activities	Page											
		no.	Da	ite (	Com	olete	ed	D	ate (	Com	olete	ed	
	Week 1 Lesson A												
То	pic: The Solar System	53											
Со	ntent & Concepts: The Sun												
•	The Sun is like all other stars – it												
	produces large amounts of heat and light												
•	continuously The energy in our Sun comes from												
	powerful nuclear reactions during which												
	hydrogen gas changes into helium gas												
	Week 1 Lesson B												
То	pic: The Solar System	53											
Со	ntent & Concepts: Objects around the												
Su													
•	A variety of objects orbit the Sun - eight												
	planets and their moons, rocky asteroids, outer dwarf planets and many distant icy												
	and dusty objects in the Kuiper Belt and												
	Oort Cloud, at the edge of the Solar												
	System												
•	Gravity is the force that keeps all these												
	objects in their stable, predictable orbits around the Sun												
	Week 1 Lesson C												
То	pic: The Solar System	53											
	ntent & Concepts: Objects around the												
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Su	1												
	All the planets and other objects in the												
	All the planets and other objects in the Solar System have their own special												
	All the planets and other objects in the Solar System have their own special features including size, distance from the												
	All the planets and other objects in the Solar System have their own special features including size, distance from the Sun, number of moons known,												
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	All the planets and other objects in the Solar System have their own special features including size, distance from the Sun, number of moons known, composition, surface temperature, time it takes for one orbit around the Sun	Reflectio	on										
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Yea	All the planets and other objects in the Solar System have their own special features including size, distance from the Sun, number of moons known, composition, surface temperature, time it takes for one orbit around the Sun			w	/hat w	rill you	u char	nge ne	ext tim	ne? W	hy?		
Yea Thin wel	All the planets and other objects in the Solar System have their own special features including size, distance from the Sun, number of moons known, composition, surface temperature, time it takes for one orbit around the Sun  r:  nk about and make a note of: What went well? W I? What did the learners find difficult or easy to u	hat did not nderstand c	go or do?	w	/hat w	rill you	u char	nge ne	ext tim	ne? W	hy?		
Yea Thirwel	All the planets and other objects in the Solar System have their own special features including size, distance from the Sun, number of moons known, composition, surface temperature, time it takes for one orbit around the Sun  r:  nk about and make a note of: What went well? W I? What did the learners find difficult or easy to u at will you do to support or extend learners? Did	hat did not nderstand c you cover a	go or do?	w	/hat w	rill you	u char	nge ne	ext tim	ne? W	hy?		
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	HOD:	Date:

Week 2													
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CAPS Concepts and Activities	Page												
	no.	Da	ate (	Com	olete	ed	D	ate (	Comi	olete	ed		
Week 2 Lesson A													
Topic: The Solar System	53												
Content & Concepts: Objects around the													
Sun													
All the planets and other objects in the													
Solar System have their own special													
features including size, distance from the Sun, number of moons known,													
composition, surface temperature, time													
it takes for one orbit around the Sun													
Week 2 Lesson B													
Topic: The Solar System	53												
Content & Concepts: Objects around the													
Sun													
The Solar System looks like a flat disc or plate. The Sun spins (rotates) at the													
centre and the planets and all other													
objects orbit around it in the same													
direction													
Week 2 Lesson C	F2												
Topic: The Solar System Content & Concepts: Objects around the	53												
Sun													
All the planets and other objects in the													
Solar System have their own special													
features including size, distance from the													
Sun, number of moons known,													
composition, surface temperature, time it takes for one orbit around the Sun													
it takes for one orbit around the sun													
	Reflection	n											
Year:													
Think about and make a note of: What went well? W	hat did not	go	١٨.	/hat w	ill voi	ı char	nge ne	xt tim	/۸ 2 م	hv?			
well? What did the learners find difficult or easy to u	nderstand o	or do?	"	nac w	yo	a citat	180 110	.xc ciiii	ic. **				
What will you do to support or extend learners? Did	•	ll the											
work set for the week? If not, how will you get back	on track?												
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	HOD:	Date:

	Week 3	3									
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	CAPS		(	Class	5				Class	5	
CAPS Concepts and Activities	Page										
	no.	D	ate (	Com	olete	ed	D	ate (	Com	plete	ed
Week 3 Lesson A											
Topic: The Solar System	53										
Content & Concepts: Objects around the	54										
Sun											
All the planets and other objects in the											
Solar System have their own special features including size, distance from the											
Sun, number of moons known,											
composition, surface temperature, time											
it takes for one orbit around the Sun											
Week 3 Lesson B											
Topic: The Solar System	53										
Content & Concepts: Objects around the											
<ul><li>Sun</li><li>Comets from the Oort Cloud come close</li></ul>											
to the Sun from time to time											
Week 3 Lesson C											
Topic: The Solar System	53										
Content & Concepts: Earth's position in											
the Solar System											
The Earth is the third planet from the Sun  The Farth is the only planet that is known.											
The Earth is the only planet that is known to support life											
The conditions that support life on Earth											
include:											
o temperature: Earth's distance from											
the Sun provides the ideal temperature range											
water is a liquid, gas or solid in											
Earth's temperature range											
<ul> <li>sunlight provides the energy in the food chain</li> </ul>											
o oxygen: early life forms and algae											
produced enough oxygen for the evolution of more sophisticated life											
forms											
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Reflection		
Year:		
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	Week 4										
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Week 4 Lesson A					oic to	<u> </u>			20111	Jiete	Ju
Topic: The solar system	53										
Content & Concepts: Objects around the	54										
Sun											
The Solar System looks like a flat disc or											
plate. The Sun spins (rotates) at the											
centre and the planets and all other objects orbit around it in the same											
direction											
Week 4 Lesson B	52										
Topic: Beyond the Solar System	53 54										
Content & Concepts: The Milky Way Galaxy	34										
Our Solar System is in the Milky Way											
Galaxy											
Aa galaxy is a collection of stars held											
<ul><li>together by their mutual gravity</li><li>Our Sun is only one of billions of stars in</li></ul>											
the Milky Way Galaxy											
Week 4 Lesson C	54										
Topic: Beyond the Solar System Content & Concepts: The Milky Way	54										
Galaxy											
Our Solar System is in the Milky Way											
Galaxy											
A galaxy is a collection of stars held											
<ul><li>together by their mutual gravity</li><li>Our Sun is only one of billions of stars in</li></ul>											
the Milky Way Galaxy											
The Milky Way Galaxy is in the shape of a											
spiral with many arms											
our Sun is located towards the edge of the Milky Way Galaxy in one of the spiral											
the Milky Way Galaxy in one of the spiral arms											
From the Earth, looking towards the											
centre of the Milky Way Galaxy, we see a											
hazy path of light across the sky											
Ancient Greeks described it as spilled milk											
HIIIK											
		l	l	l	l	<u> </u>	l				

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	
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CAPS Concepts and Activities  Page  no.	
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no. Date Completed Date Comple	
	eted
Week 5 Lesson A	
Topic: Beyond the Solar System 54	
Content & Concepts: Our nearest star	
The Sun is the nearest star to Earth  The Sun is the nearest star	
The star called Alpha Centauri is the     nearest easily visible star to the Sun (it is	
the brighter of the two Pointers of the	
Southern Cross constellation)	
Week 5 Lesson B	
Topic: Beyond the Solar System 54	
Content & Concepts: Our nearest star	
Alpha Centauri is 4,2 light years away	
from our Solar System	
Tanin Barrandaha Calar Gustarra	
Topic: Beyond the Solar System  Content & Concepts: Light years, light	
hours and light minutes	
People use light years to measure	
distances to stars and other objects	
beyond the Solar System	
A light year is the distance that light travels in one year	
One light year is equal to about 10 trillion	
kilometres (km)	
Alpha Centauri is 42 trillion km away	
A light hour is the distance that light	
travels in one hour  Our Solar System has a diameter of about	
13 light hours	
A light minute is the distance that light	
travels in one minute	
The Earth is about 8 light minutes away from the Sun	

Week 5 Lesson C											
Topic: Beyond the Solar System	54										
Content & Concepts: Light years, light											
hours and light minutes											
People use light years to measure											
distances to stars and other objects											
<ul><li>beyond the Solar System</li><li>A light year is the distance that light</li></ul>											
travels in one year											
One light year is equal to about 10 trillion											
kilometres (km)											
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A light hour is the distance that light travels in one hour											
Our Solar System has a diameter of about											
13 light hours											
A light minute is the distance that light											
travels in one minute											
The Earth is about 8 light minutes away from the Sun											
from the 3un											
	Reflectio	n									
Year:											
Think about and make a note of: What went well? W	hat did not	ø۸	\\/	hat w	ill voi	ı char	nge ne	xt tim	₽5 W/	hv?	
What will you do to support or extend learners? Did	ink about and make a note of: What went well? What did not go ell? What did the learners find difficult or easy to understand or do? hat will you do to support or extend learners? Did you cover all the ork set for the week? If not, how will you get back on track?										
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Think about and make a note of: What went well? W		-	W	hat w	vill you	ı char	nge ne	xt tim	ie? W	hy?	
well? What did the learners find difficult or easy to u What will you do to support or extend learners? Did work set for the week? If not, how will you get back of	you cover a										
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	Week 6	5										
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CAPS Concepts and Activities	Page no.											
	110.	Da	ate (	Com	olete	ed	D	ate (	Com	plete	ed	
Week 6 Lesson A												
Topic: Beyond the Solar System	54											
Content & Concepts: Beyond the Milky Way Galaxy												
Our Milky Way Galaxy is only one of												
billions of galaxies scattered across the												
Universe												
Week 6 Lesson B												
Topic: Beyond the Solar System	54											
Content & Concepts: Beyond the Milky												
Way Galaxy												
The size of the observable Universe is estimated to be about 28 billion light												
years												
Galaxies have various shapes and sizes												
Week 6 Lesson C												
Topic: Beyond the Solar System	54											
Content & Concepts: Beyond the Milky												
Way Galaxy												
Our Milky Way Galaxy is only one of												
billions of galaxies scattered across the Universe												
The size of the observable Universe is												
estimated to be about 28 billion light												
<ul><li>years</li><li>Galaxies have various shapes and sizes</li></ul>												
Galaxies have various shapes and sizes												
	Reflection	n										
Year:												
Think about and make a note of: What went well? W				/hat w	ill you	ı char	nge ne	xt tim	ne? W	hy?		
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work set for the week? If not, how will you get back	•											
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	HOD:	Date:

Week 7											
	CAPS	Year:					Year:				
CAPS Concepts and Activities		Class				Class					
	Page										
	no.	Da	ate (	Comp	olete	ed	D	ate (	Comi	olete	ed
Week 7 Lesson A											
Topic: Looking into space	54										
Content & Concepts: Early viewing of											
space											
People can see planets and stars in the											
<ul><li>night sky</li><li>Stars can be arranged into visible</li></ul>											
constellations											
Different cultures have identified and											
named certain constellations											
Some constellations have stories linked											
to them											
Week 7 Lesson B											
Topic: Looking into space	55										
Content & Concepts: Telescopes											
People can see more details in the sky											
<ul><li>when they use a telescope</li><li>A telescope forms an image of the object</li></ul>											
and magnifies it (makes it look bigger)											
Week 7 Lesson C											
Topic: Looking into space	55										
<ul><li>Content &amp; Concepts: Telescopes</li><li>There are different types of telescopes</li></ul>											
including:											
<ul> <li>optical telescopes receive light and</li> </ul>											
focus it by refraction (using lenses)											
or reflection (using mirrors) such as SALT (Southern Africa Large											
Telescope), and the Hubble Space											
telescope											
Year:	Reflection	m									
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		W	What will you change next time? Why?								
work set for the week? If not, how will you get back of	on track?										
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	HOD:	Date:

Week 8											
		Year:				Year:					
		Class				Class					
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Week 8 Lesson A											
Topic: Looking into space	55										
There are different types of telescopes including:         radio telescopes receive radio waves and focus them by reflection (typically using a metal receiving dish) such as the SKA (Square Kilometre Array)											
Week 8 Lesson B  Topic: Looking into space Content & Concepts: Telescopes  There are different types of telescopes	55										
including:  o optical telescopes receive light and focus it by refraction (using lenses) or reflection (using mirrors) such as SALT (Southern Africa Large Telescope), and the Hubble Space telescope											
Week 8 Lesson C											
<ul> <li>Topic: Looking into space</li> <li>Content &amp; Concepts: Telescopes</li> <li>Good conditions for looking into space include cloudless skies with limited light and air pollution</li> <li>South Africa has many locations that meet these requirements</li> </ul>	54 55										
	Reflection	n									
Year:											
Think about and make a note of: What went well? W well? What did the learners find difficult or easy to u What will you do to support or extend learners? Did work set for the week? If not, how will you get back of the week?	nderstand o you cover a	r do?			ill you	ı char	ge ne	xt tim	e? W	hy?	
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work set for the week? If not, how will you get back on track?	you change next time	? Why?
HOD:		Date:

CAPS Concepts and Activities  CAPS Page no.  Da  Week 9 Lesson A	r: Class	Year:				
CAPS Concepts and Activities Page no. Da	Class	C				
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Week 9 Lesson A	ite Completed	Date Co	mpleted			
Topic: Revision and Study 47-55						
Week 9 Lesson B  Topic: Revision and Study 47-55						
Topic: Revision and Study 47-55						
Week 9 Lesson C						
Topic: Revision and Study 47-55						
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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?  HOD: Date:						
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Week 10									
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CARS Concents and Activities	CAPS		Class	5	C	Class			
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Examination	91								
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?				ini you cilai	nge next time	· vviy:			
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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	understand o	or do?	What w	vill you char	nge next time	e? Why?			
			Date:						