



CapeNature **20**
YEARS 1999-2019

Twenty years of nurturing nature for you

WATER WARRIOR PROGRAMME GRADE4

XXX

ADD TITLE

Introduction



Who are we?



CapeNature is the part of government that protects natural occurring plant and animal life (biodiversity) in the Western Cape.



NOW - Introducing our incredible staff...



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What are we going to do today?

- Learn all about water and the water cycle
- Make water cycle bracelets
- Pollution demonstration or mini SASS
- Good water-bad water card



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What are the rules for today?



Listen to the speaker

Have fun!

Respect your teacher and classmates



RULES OF ENGAGEMENT

Take part in all the activities!

Be safe



What else?



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Tuning in



Water has three phases...

Solid...



Gas...



Liquid...



Activity: fill out the table

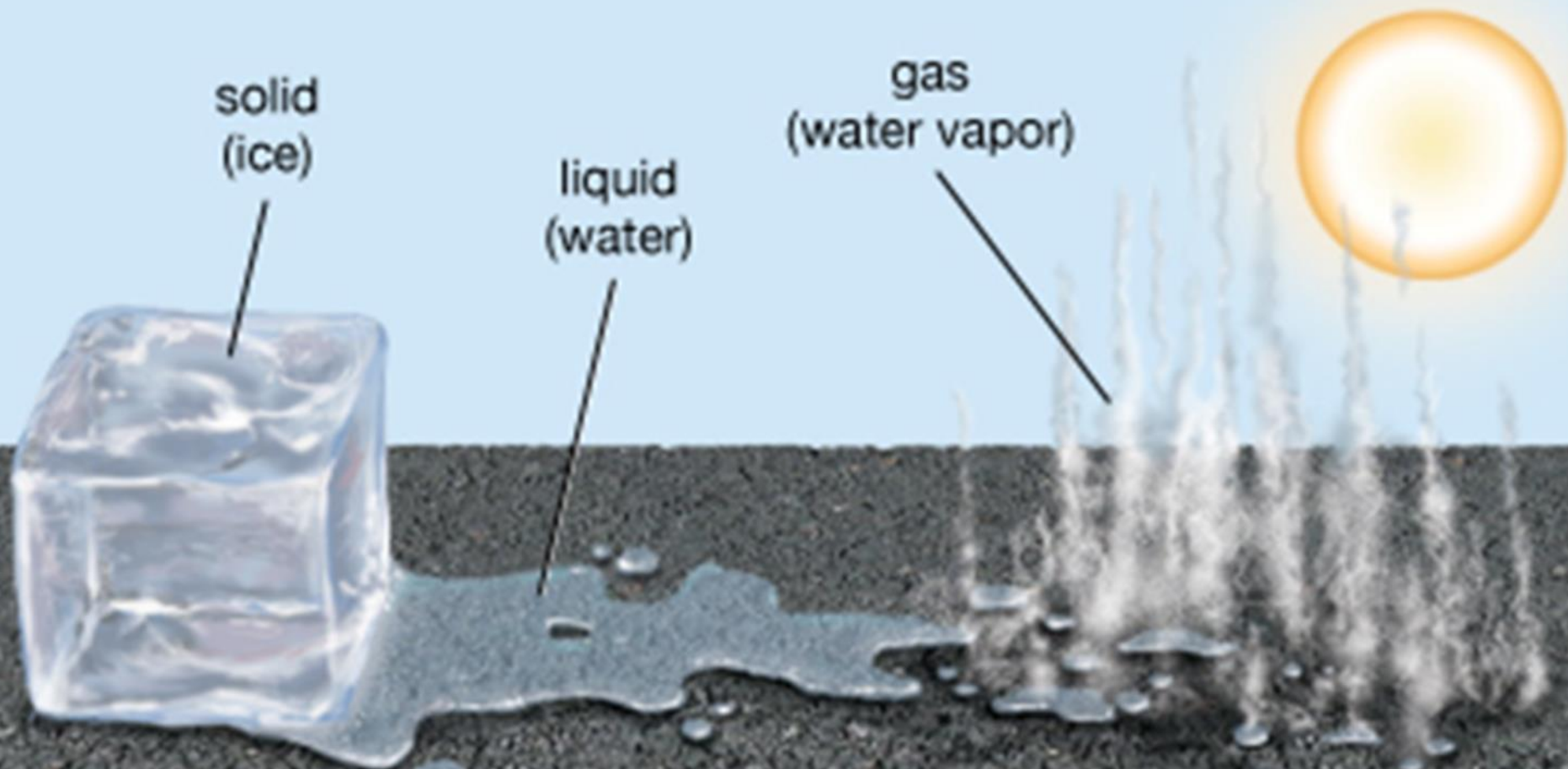


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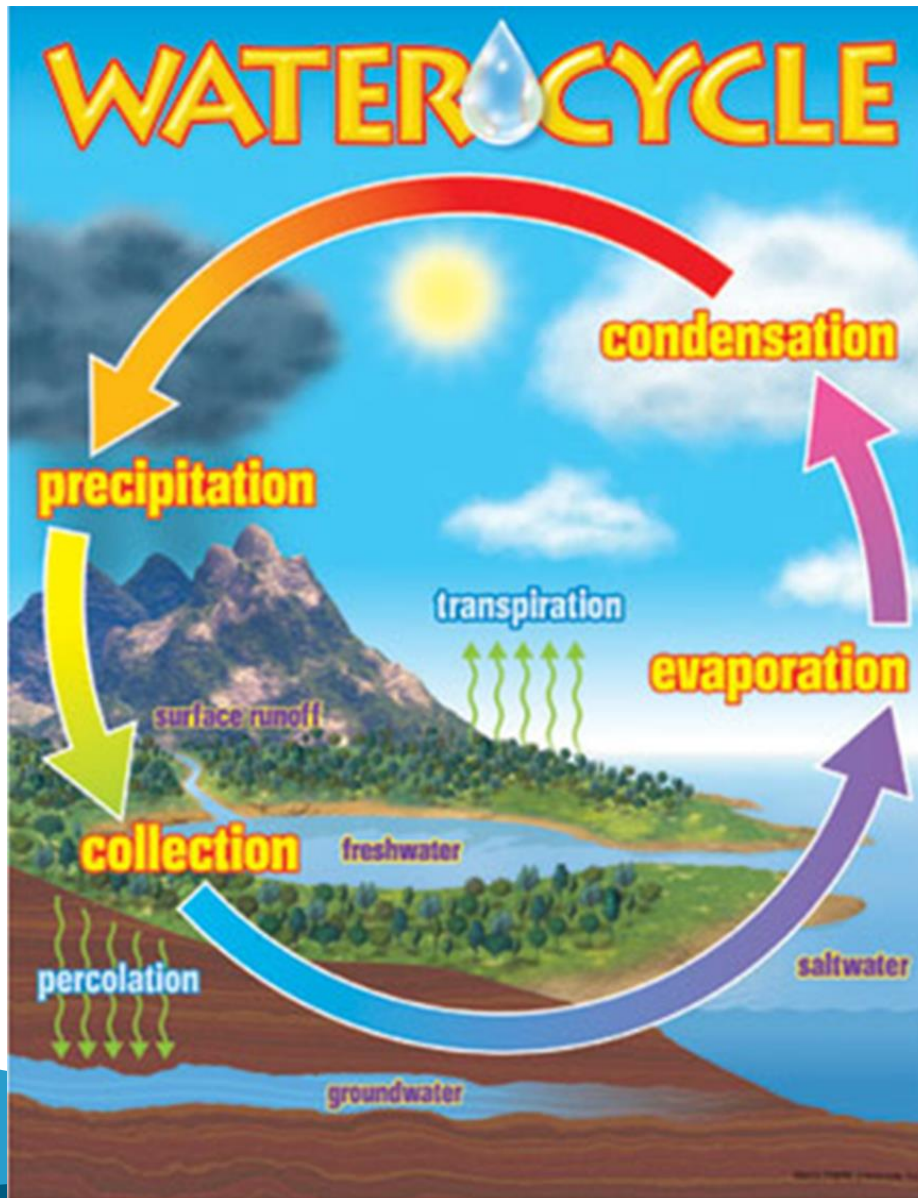
Water has three phases...



The water song



The wacky water cycle



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Evaporation

The background of the slide features a serene sunset scene over a body of water. The sky is a deep, clear blue, transitioning into a bright, glowing horizon where the sun has set. The water in the foreground is dark blue, with horizontal ripples and a reflection of the bright light from the horizon. The overall atmosphere is calm and natural.

Transpiration



Condensation



Collection

accumulation

The WATER



WATER IS ESSENTIAL TO LIFE ON EARTH



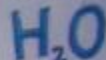
ALL WATER IS PART OF A CONTINUOUS GLOBAL CYCLE OF WATER CIRCULATION. IT HAS NO BEGINNING AND NO END...

THE WATER CYCLE IS DRIVEN BY



THE ENERGY OF THE SUN.

THE CHEMICAL COMPOSITION OF WATER IS



EACH PARTICLE OF WATER IS MADE UP OF TWO ATOMS HYDROGEN AND ONE ATOM OXYGEN JOINED TOGETHER.



1. THESE MOON SET BACKS & SWIRLS, UNTIL THEY MEET THE HEAVY AIR AND FALL AS RAINDROPS.

2. AS IT RISES IT COOLS & CONDENSES INTO SWIRL PROPLETS WHICH FORM CLOUDS.

3. SUN WARMED AIR CAUSES AIR MOLES HEAVY MOLES (CONDENSE)

HOW IS RAIN FORMED?



MONSANTO FOOD



MONSANTO FOOD



OUR EARTH IS OUR PLANET



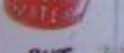
70% OF OUR PLANETS SURFACE IS COVERED BY WATER



BUT ONLY 2% IS FRESH WATER



BUT ONLY 2% IS FRESH WATER



BUT ONLY 2% IS FRESH WATER

GLOSSARY

- IMPERVIOUS ROCK** : solid rock
- INFILTRATION** : filtering through
- TRANSPIRATION** : evaporation from plants
- PRECIPITATION** : rain, snow, dew, sleet

GROUNDWATER:

underground water held in spaces and cracks in the rock.

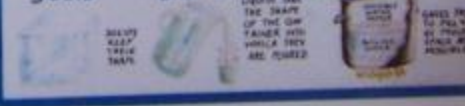
WETLAND: shallow slow moving water eg vleis, swamp
ESTUARY: place where fresh water from rivers and wetlands enter the sea.

Only on earth does water exist in its 3 physical forms:

SOLID

LIQUID

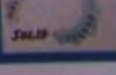
GAS



GAS

LIQUID

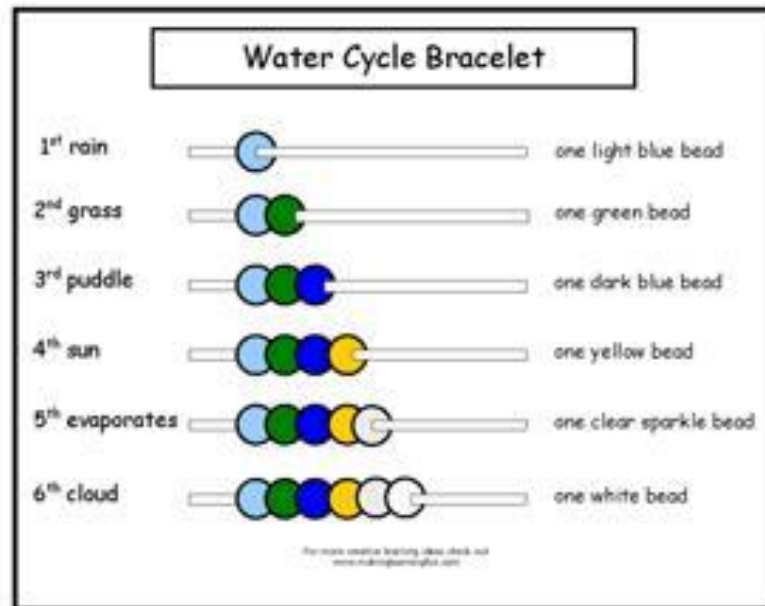
SOLID



Chip Snashore 1992

Wacky Arts and Crafts

Activity time:
make a water
cycle
bracelet



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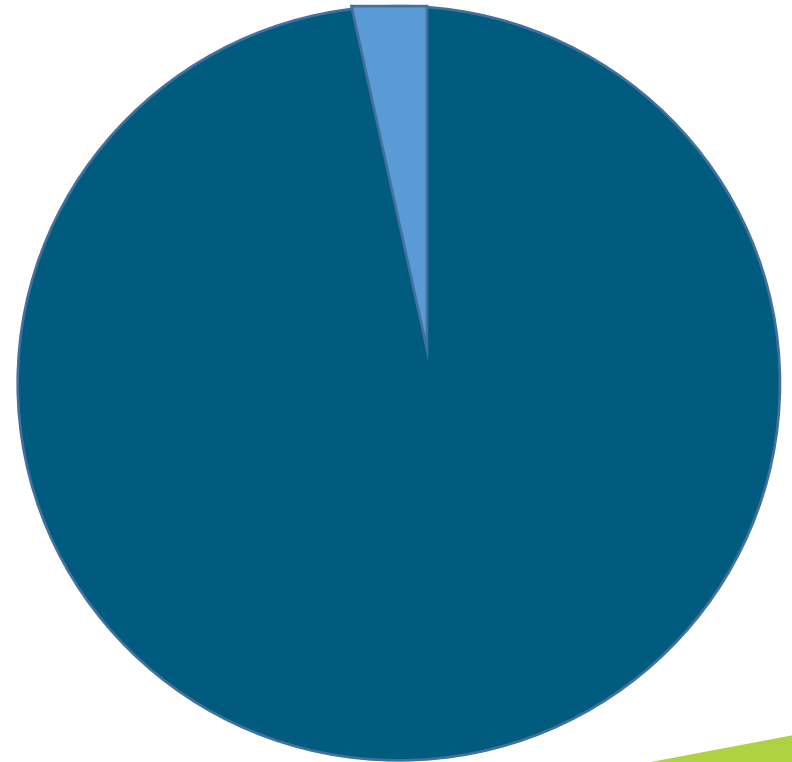
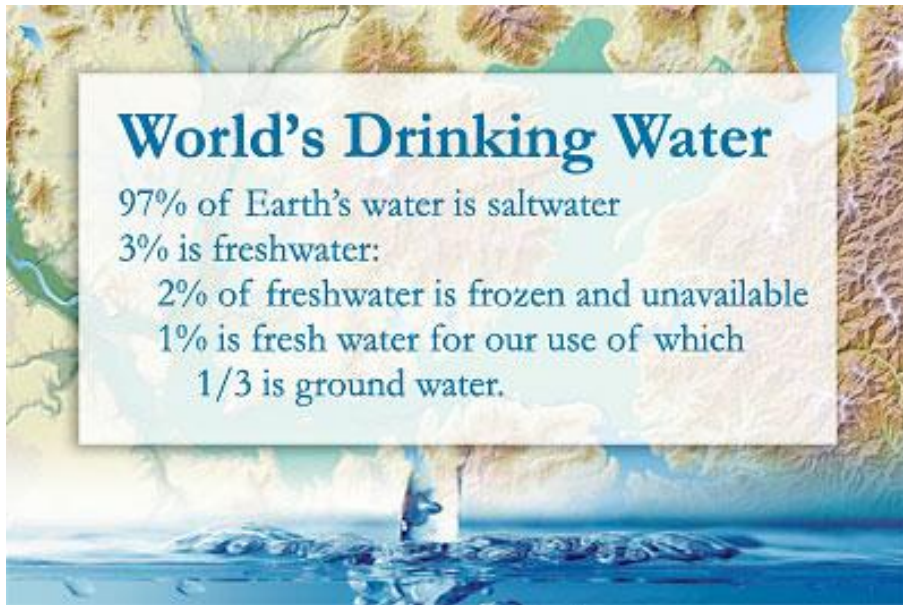
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Useful water

How much of the Earth's water do you think we can use?

Activity: let's cut it out



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Water pollution

Pollution threatens our water...



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What are wetlands?

Land that is covered in water all year or part of the year...



Can you give some examples of types of wetlands?



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How many did you guess right?

Marshes
Ponds
Lakes
Rivers
Flood plains
Swamps
Mangroves
Estuaries
Lagoons



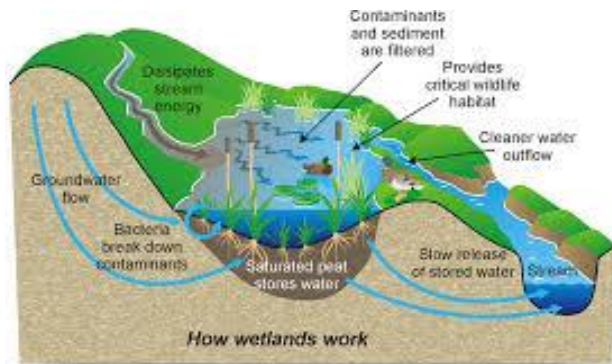
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Why are wetlands important?

- Provide fresh water for us all
- Clean water
- Home to many plants and animals
- Help fight climate change



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Activity: Lets experiment and see how wetlands clean our water or see how polluted water is (MINI SASS)



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Consolidation



Good water, bad water

Activity: how do we save and waste water? Find your partner...





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THANK YOU.