



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

Respect your teacher and classmates



Have fun!

RULES OF ENGAGEMENT

Be safe



Take part in all the activities!



What else?



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Tuning in



What is Water Week

About

- World Water Day is celebrated every 22 March every year – Its like a BIRTHDAY !!!!
- National Water Week is celebrated 16-22 March in South Africa



Water has three phases...

Solid...



Gas...



Liquid...



Activity: fill out the table

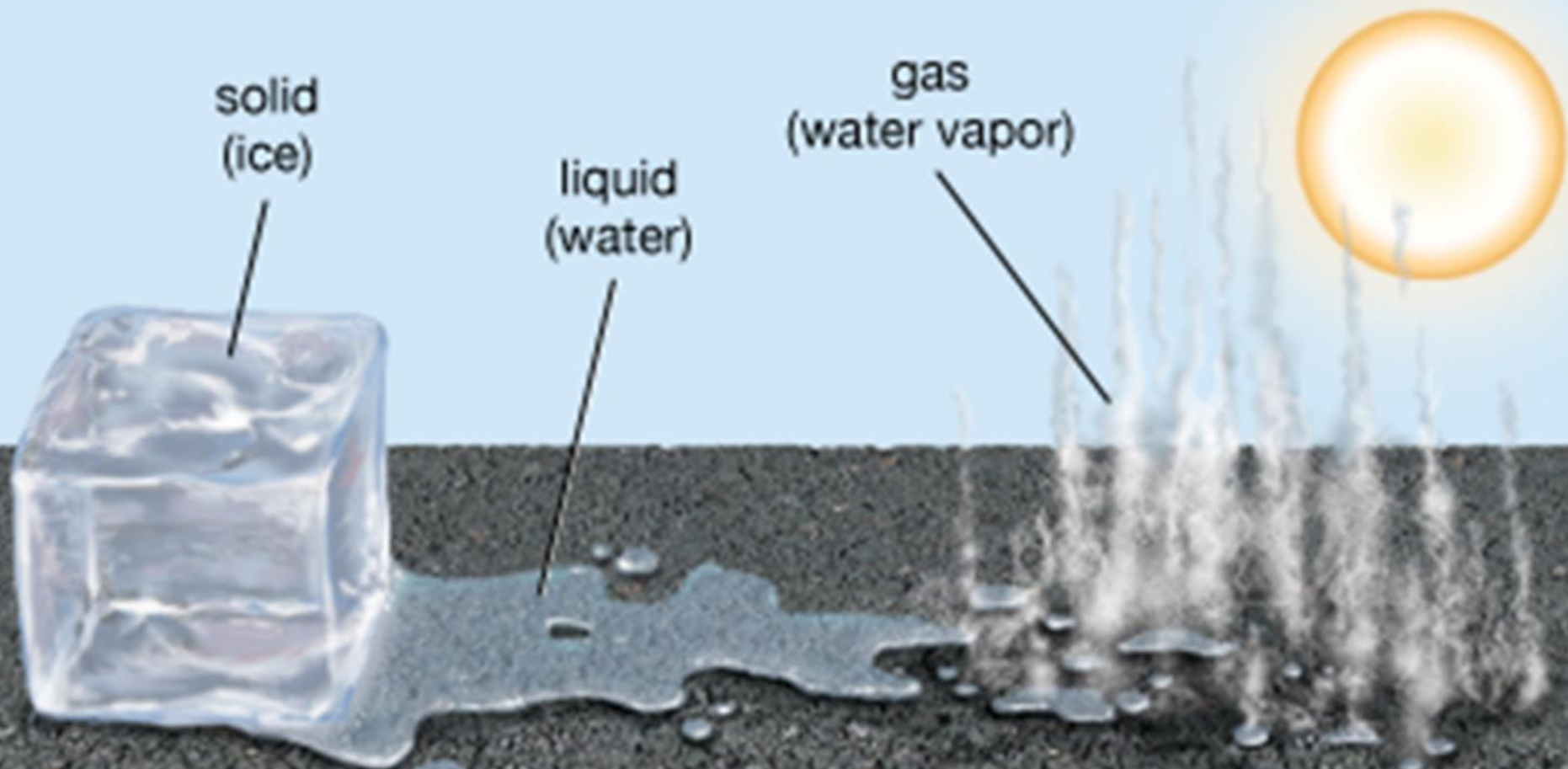


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Water has three phases...



The water song

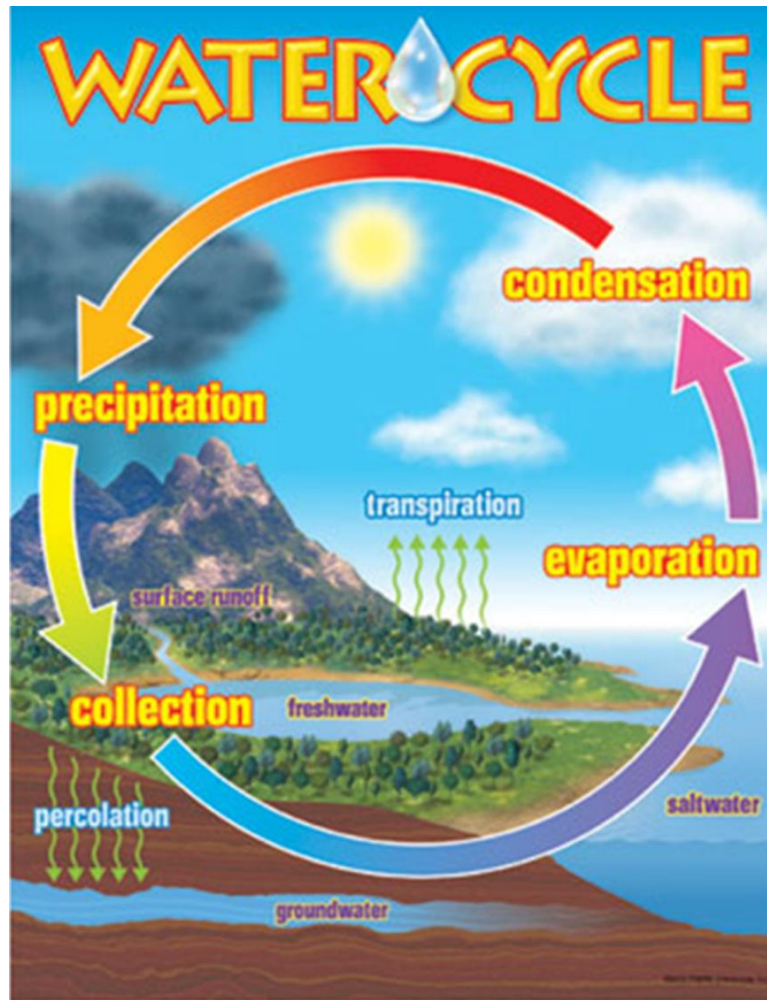


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The wacky water cycle



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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, with a bright sun partially obscured by soft, white clouds on the right side. Numerous rays of light, or crepuscular rays, fan out from the sun's position, creating a dramatic and ethereal atmosphere. The water in the foreground is calm, reflecting the colors of the sky and the light rays.

Transpiration



Condensation



Collection

A wide-angle photograph of a large, calm blue lake. The water has a slight ripple. In the background, a dense line of green trees stretches across the horizon. The sky is a clear, light blue. On the right side, there are some green bushes and trees in the foreground, partially obscuring the view of the lake.

accumulation

The WATER



WATER IS ESSENTIAL TO LIFE ON EARTH



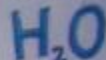
ALL WATER IS PART OF A CONTINUOUS GLOBAL CYCLE OF WATER CIRCULATION. IT HAS NO BEGINNING AND NO END...

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 MOLECULES GET HEATED & SWELL. UNTIL THEY ARE TOO HEAVY AND FALL AS RAINDROPS.

2. AS IT RISES IT COOLS & CONDENSES INTO DRY PARTICLES WHICH FORM CLOUDS.

3. DRY WATERS ARE LIGHTER AND WHILE HEAVY MOLECULES (TRANSPIRATION)

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



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

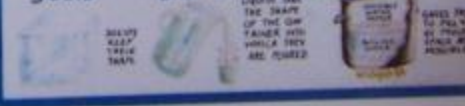
WETLAND: shallow slow moving water eg. vlei, swamp
ESTUARY: place where fresh water from rivers and wetlands enter the sea.

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

SOLID

LIQUID

GAS



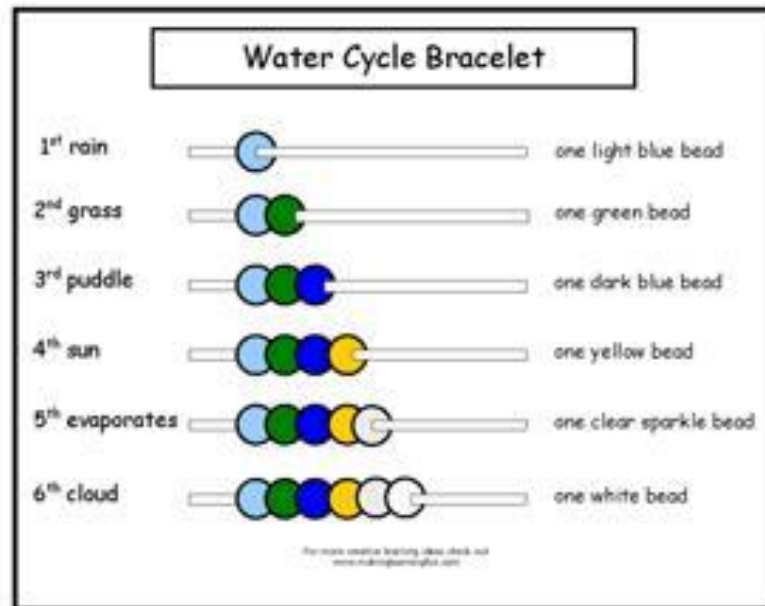
GAS



MONSANTO FOOD

Wacky Arts and Crafts

Activity time:
make a water
cycle
bracelet



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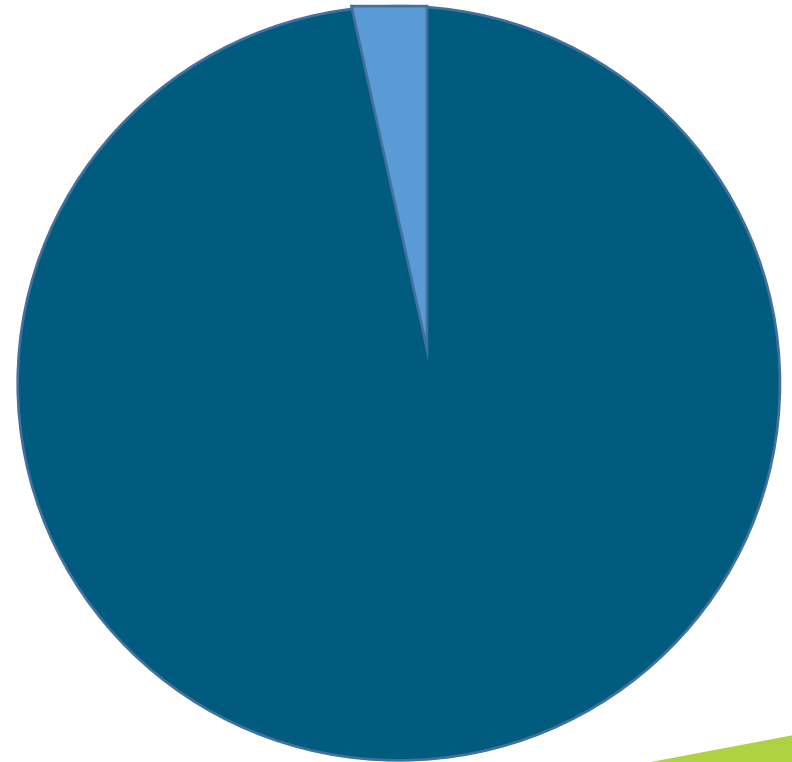
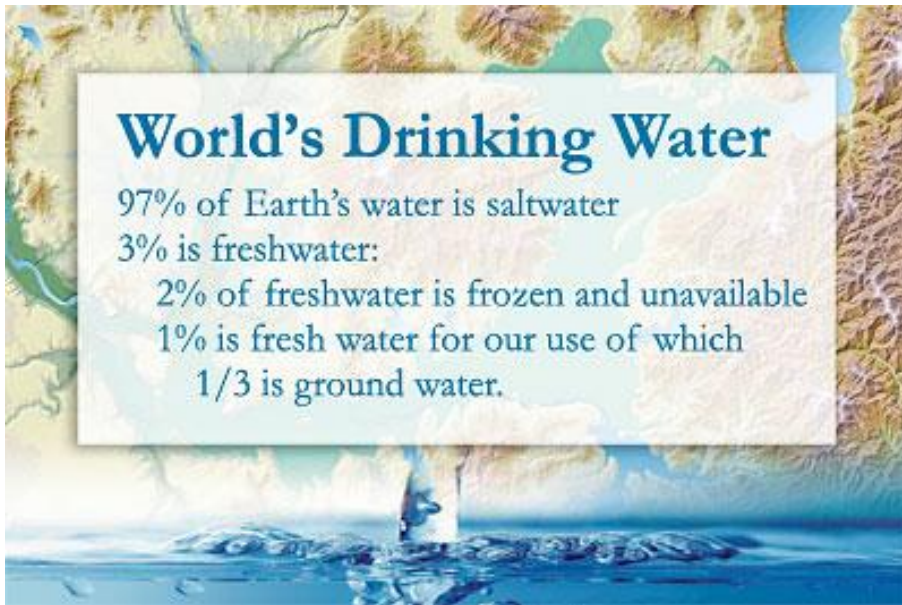
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Importance of water

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

Activity: let's cut it out



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Consolidation



Good water, bad water

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



Water pollution

Pollution threatens our water...



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THANK YOU.