



THE LIFE PROCESSES

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What is a living thing?

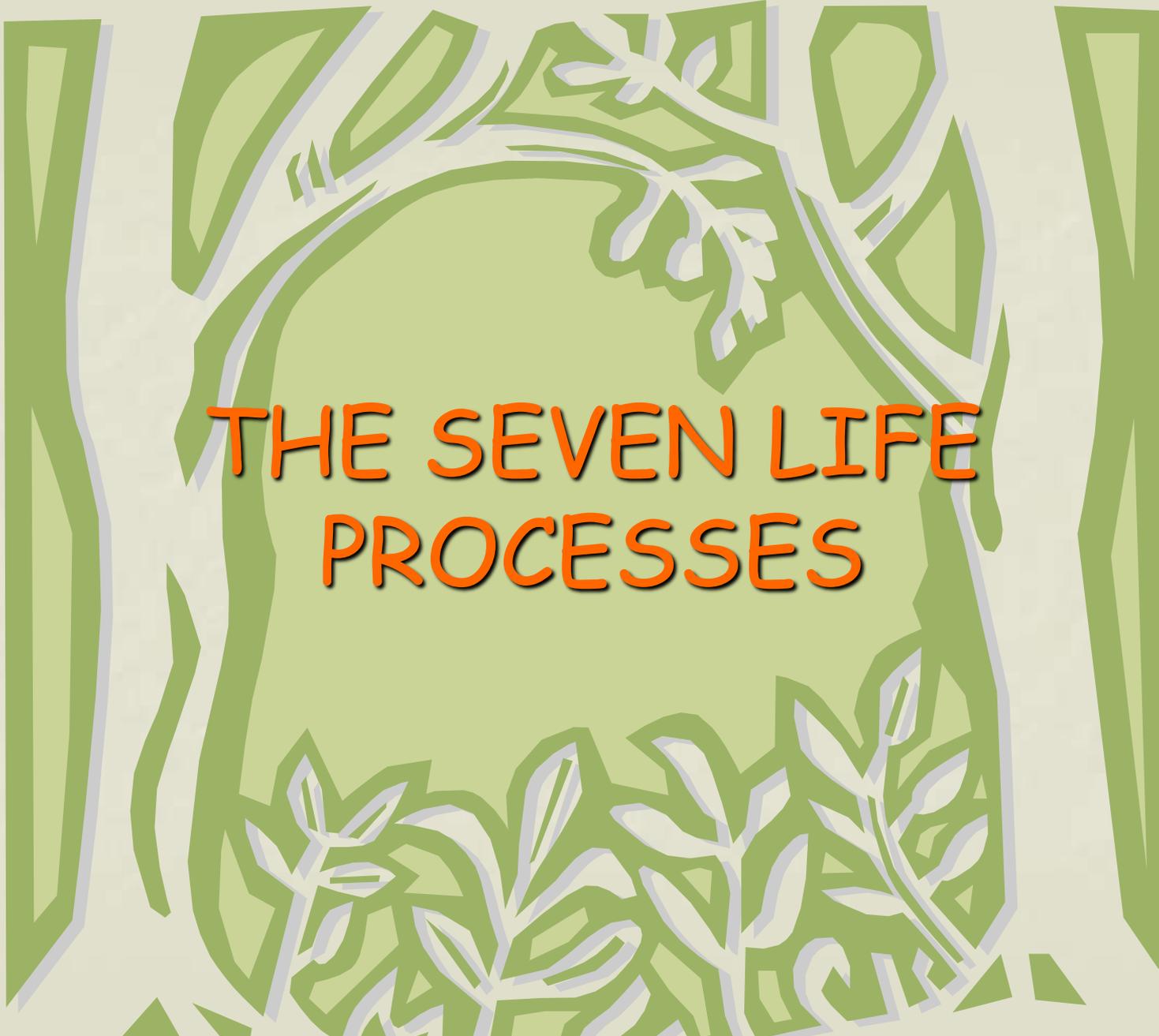
- **Imagine that you are space traveler who lands on an unknown planet. How could you determine if what you are looking at is alive. Ex. A rock and a blade of grass.**

Key Concepts

- **Metabolism** – all the chemical activities an organism must carry on to sustain life.
- **Homeostasis** – the maintenance of a stable internal environment in spite of changes in the external environment.

Living things

- Although all living things look different from each other, they all have seven things in common.
- These seven things are called life processes.
- Something is only alive if it does all seven processes.



THE SEVEN LIFE PROCESSES

1

All living things
move

- Animals move their whole bodies to get from one place to another.



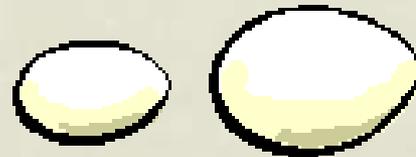
- Plants turn towards the light and their roots grow down into the soil.



2

All living things
reproduce

- Animals have babies.



- New plants grow from seeds.



3

All living things
are sensitive

- All living things respond to changes. Living things notice changes in their surroundings and react to them.
- Eg. Plants grow towards the light.
- Eg. People react to the temperature around them.



4

All living things
need nutrition

- Food is used to provide energy.

- Green plants make their own food using sunlight.



- Animals eat plants or other animals.



5

All living things
excrete

- Waste substances must be removed from the body.
- Plants and animals both need to get rid of waste gas and water.



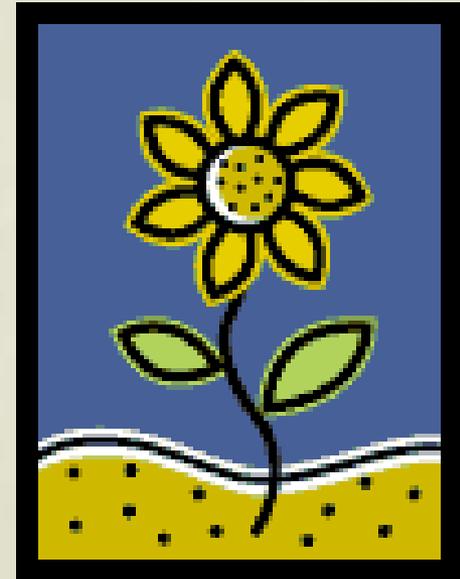
6

All living things
respire



- Plants and animals use the oxygen in the air to turn food into energy.

glucose + oxygen \longrightarrow energy + heat + carbon dioxide



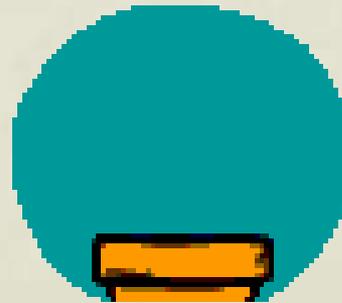
7

All living things
grow

- Babies grow into adults.



- Seedlings grow into plants.



The seven life processes

- 1 Move
- 2 Reproduce
- 3 Sensitive
- 4 Nutrition
- 5 Excrete
- 6 Respire
- 7 Grow

Use the first letter from each process to help you remember them.

Move

Respire

Sensitive

Grow

Reproduce

Excrete

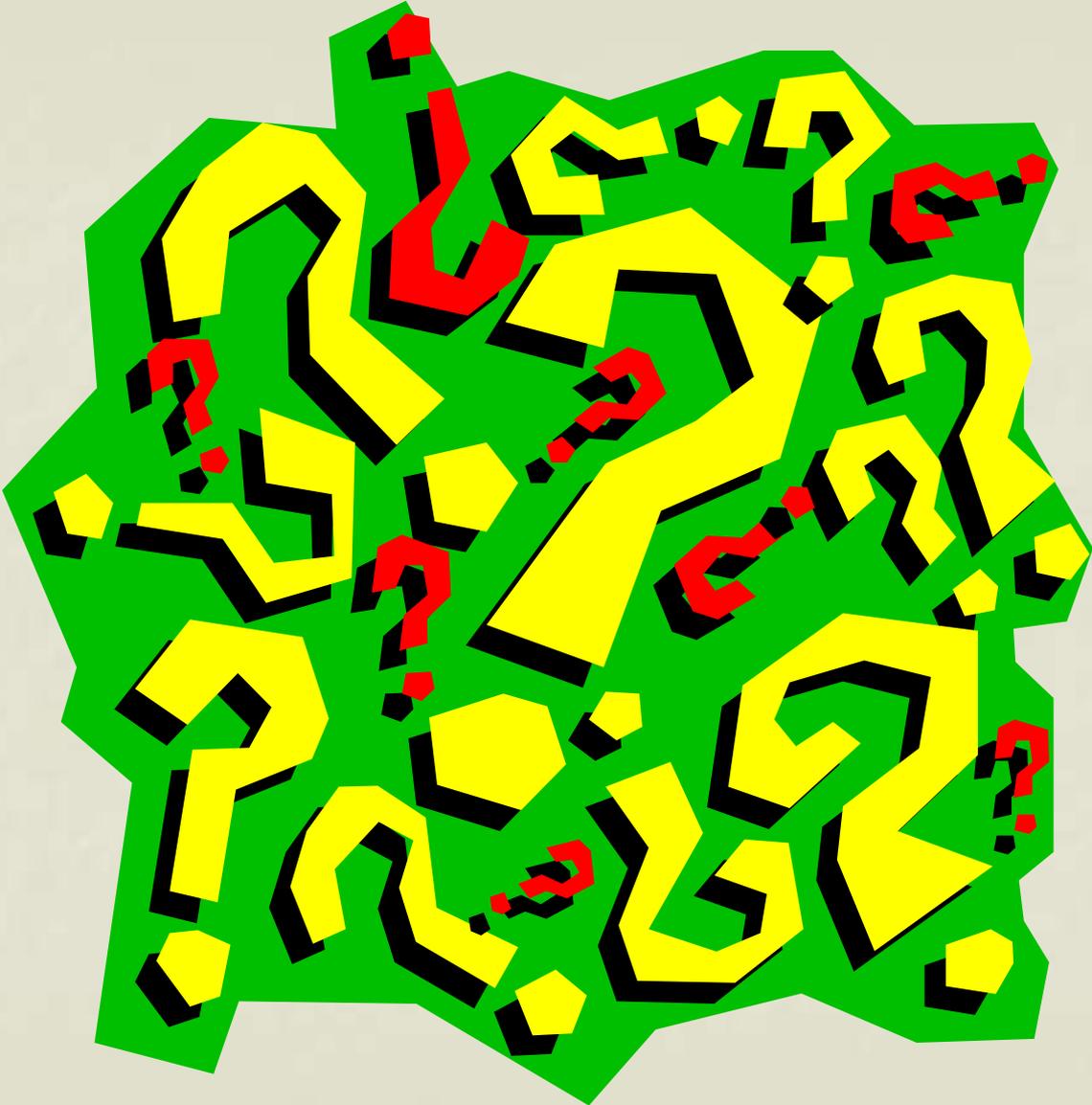
Nutrition

They spell MRS GREN

This is MRS GREN !



Can you remember
what each of the
letters in her name
stand for ?



Well done !