

# Guide To Primary Science

A photograph of two polar bears standing on a vast, flat, snow-covered landscape. The sun is low in the sky, creating a bright glare and long shadows. The bear in the foreground is slightly hunched over, while the one behind it stands upright.

**What is  
Science?**

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# INTRODUCING SCIENCE



**Science is the  
study of living  
and non-living  
things**



- In this Section, you will be introduced to the five themes of Primary Science:

✧ Diversity

✧ Cycles

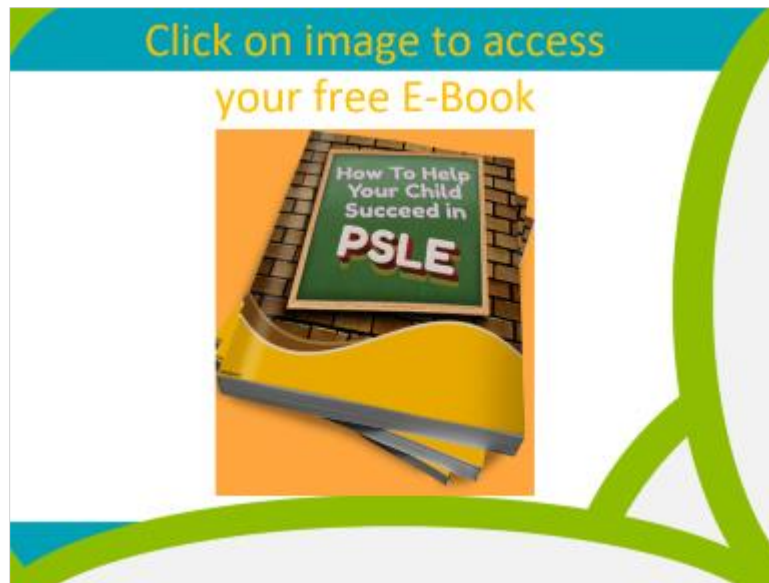
✧ Systems

✧ Energy

✧ Interaction



- You can also view a SUMMARY of the topics when you scroll to the last slide to collect your free gift.



# Diversity

The word 'Diversity' is written in large, bold, sans-serif letters with a rainbow gradient. The background is a collage of four images: a lion's head in the top left, an elephant in the top right, two penguins in the bottom left, and red roses in the bottom right.



- The many things that we see around us is called **diversity**.





**For convenience, the topics in **green** denotes lower block (Grades 3-4) and those in **blue** for upper block (Grades 5-6)**

- ☐ Classification (General)
- ☐ Living and Non-Living Things
- ☐ Animal Classification
- ☐ Plant Classification
- ☐ Bacteria, Fungi and Microorganisms
- ☐ Materials



# Cycles



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# CYCLES- Definition

**A CYCLE IS A  
PATTERN THAT  
REPEATS ITSELF**



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# CYCLE: Contents Included

**For convenience, the topics in **green** denotes lower block (Grades 3-4) and those in **blue** for upper block (Grades 5-6)**

- 3 States of Matter
- Life Cycle of Animals
- Life Cycle of Plants
- Reproduction in Humans
- Reproduction in Flowering Plants
- Water



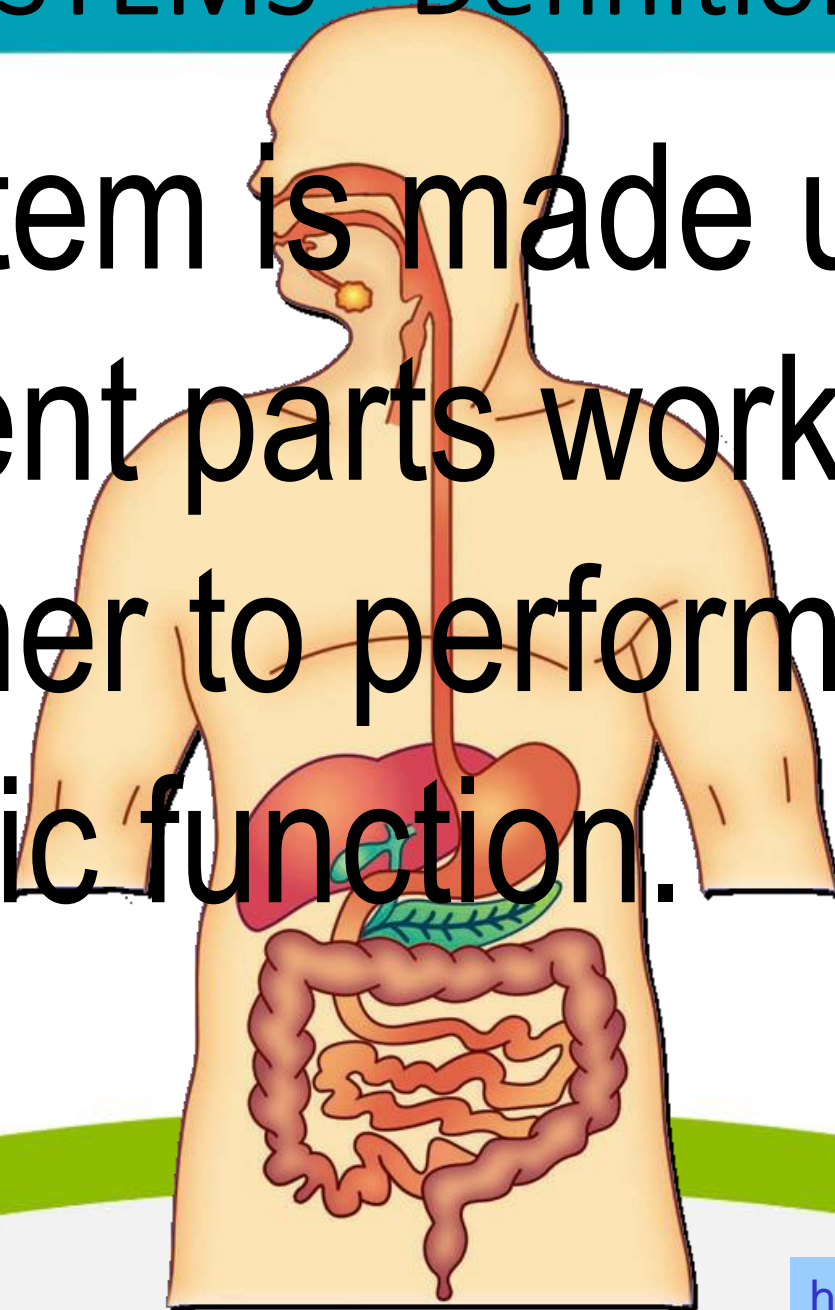
# Systems

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# SYSTEMS - Definition

- A system is made up of different parts working together to perform a specific function.



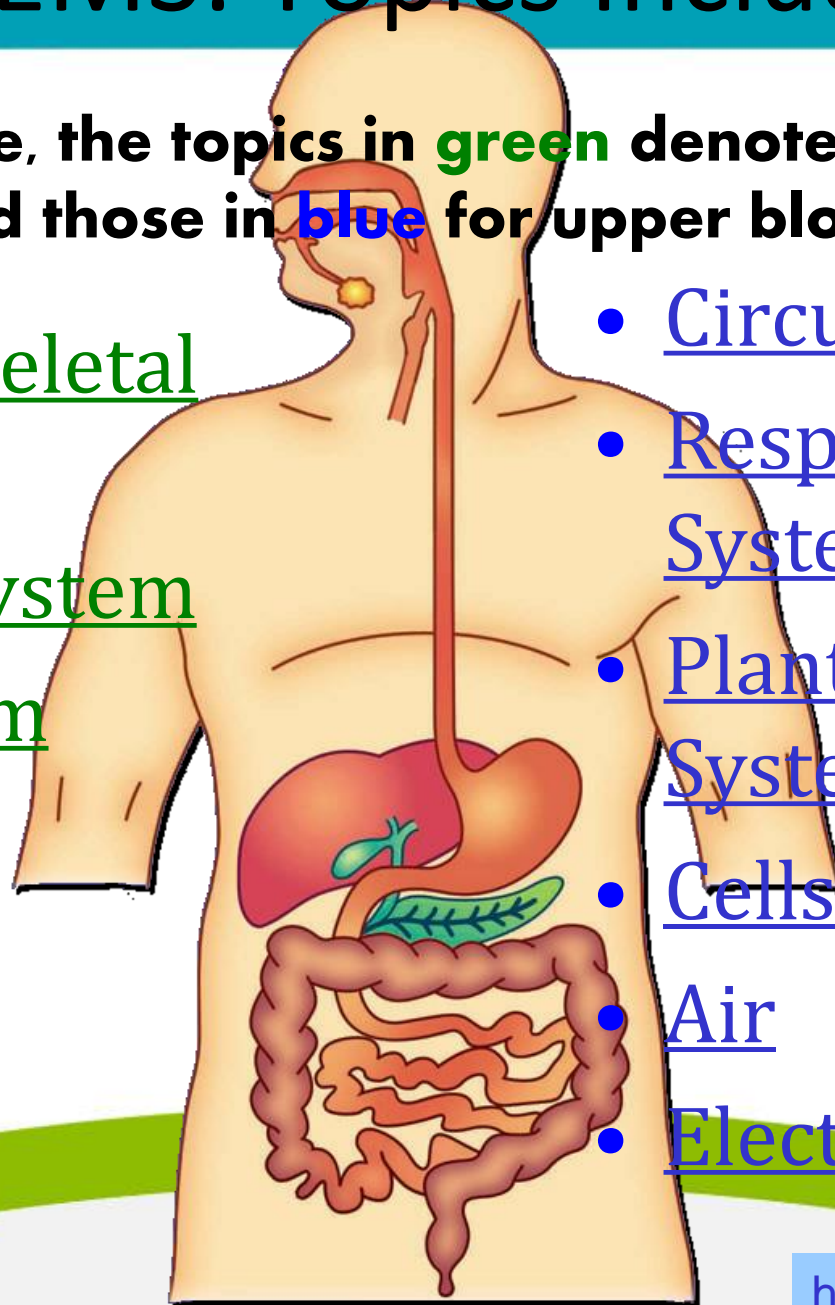


# SYSTEMS: Topics Included

For convenience, the topics in **green** denotes lower block (Grades 3-4) and those in **blue** for upper block (Grades 5-6)

- Musculo-Skeletal System
- Digestive System
- Plant System

- Circulatory System
- Respiratory Systems
- Plant Transport System
- Cells
- Air
- Electricity

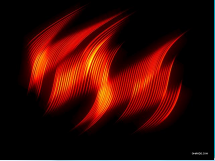


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# Energy

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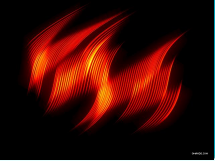


# Energy: Definition

**Energy** is the  
**ability to do  
work**







# ENERGY: Topic Included

**For convenience, the topics in **green** denotes lower block (Grades 3-4) and those in **blue** for upper block (Grades 5-6)**

- Light
- Heat
- Photosynthesis
- Energy-Forms and Conversion
- Respiration

# Interaction

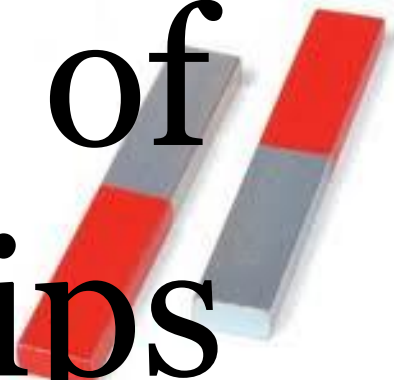


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## INTERACTION: Definition

The effects of  
relationships  
between two or  
more entities



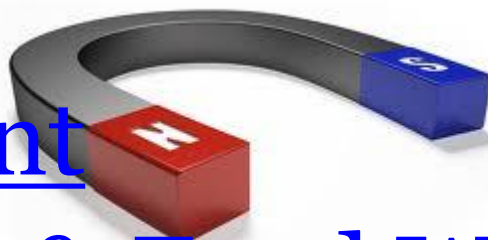




# INTERACTION: Topics Included

**For convenience, the topics in **green** denotes lower block (Grades 3-4) and those in **blue** for upper block (Grades 5-6)**

- Magnet
- Forces
- Environment
- Food Chain & Food Web
- Adaptation
- Man and His Environment



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# SCIENCE PROCESS SKILLS

# Investigating SCIENCE PROCESS SKILLS

- In Science, the quest for knowledge is only made possible by the application of a set of process skills. These process skills are summarized below. A sample of the process skill observation is illustrated in the upcoming slides.

Generating

Classifying

Creative Problem Solving

Communication  
Decision

-Making

Inferring

Measurement

Formulating A Hypothesis

Prediction

Evaluating

Comparing

Analysing



# OBSERVATION



# Skill 1: Observation



Bat

- **List down as many things as you can about the animal on the left.**

- **When you describe an object using your 5 senses, you are describing its characteristics**

# CHARACTERISTICS

- **A characteristic is the way something looks like, tastes, smells, feels and sounds.**
- **Characteristic also refers to how an object behaves eg. an earthworm curls up when touched.**



You can find out more about *Characteristics* under '[Classification](#)'



Try This..

## Activity 1:

- List the characteristics of the bat below.

i) \_\_\_\_\_

ii) \_\_\_\_\_

iii) \_\_\_\_\_

iv) \_\_\_\_\_

v) \_\_\_\_\_

vi) \_\_\_\_\_



## Activity 1:

- List the characteristics of the bat below.
  - i) It is able to fly
  - ii) It flies in the dark
  - iii) It hangs upside down
  - iv) Its body is covered with hair
  - v) It finds its way by sound
  - vi) It gives birth to young







Try This...

## Activity 2:

List all the characteristics  
of the animal below...



Eagle

- Activity 2:

- List the characteristics of the eagle below.

- i) It lays egg

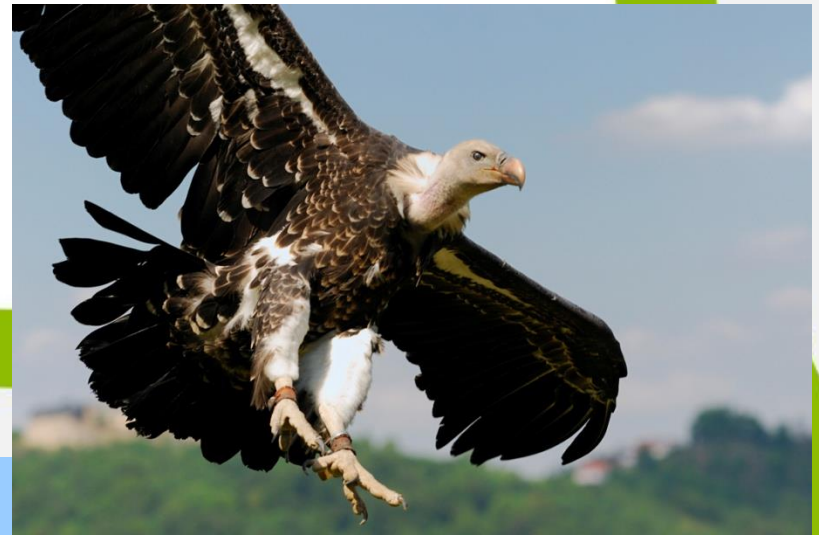
- ii) It is able to fly

- iii) Its body is covered with feathers

- iv) It has good eyesight

- v) It has sharp claws

- vi) It hunts during the day



# The End

**But Wait, Scroll Down for More..**

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