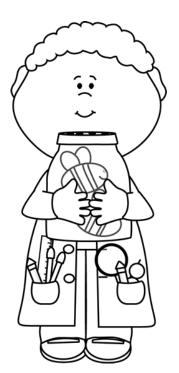
## Science Notes

P3 Diversity

Living Things



### What are living things?

Living things are things that

#### Need

- ·Air
- · Food
- Water

#### Can

- · Grow
- · Reproduce
- Respond to changes

# What are non-living things?

Non-Living things are things that

#### Do not need

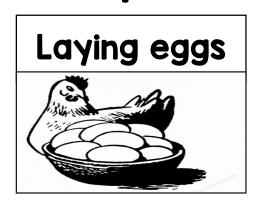
- ·Air
- Food
- Water

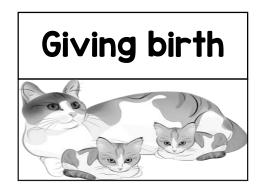
#### Cannot

- · Grow
- · Reproduce
- Respond to changes

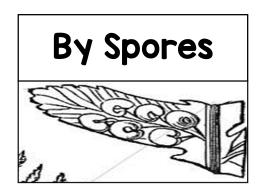
### Living Things reproduce

Through different ways
Examples



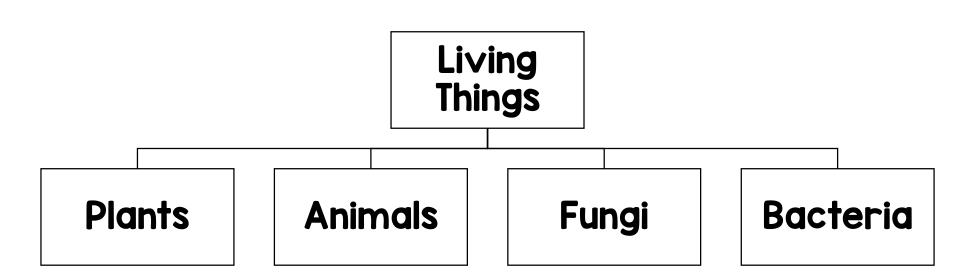






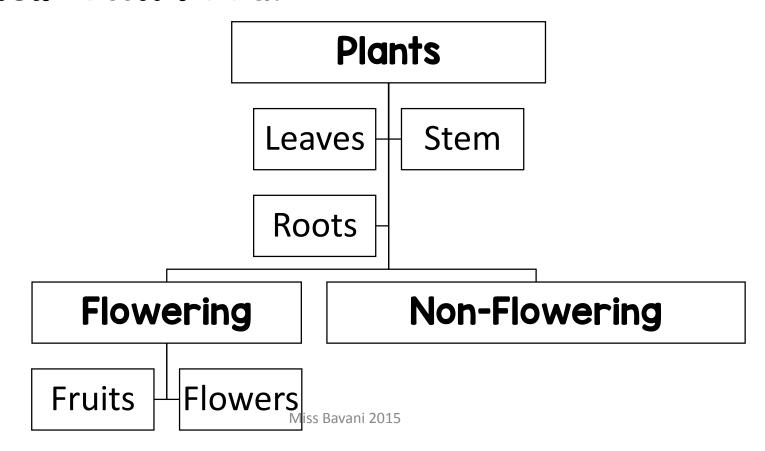
# How can Living Things be classified?

 Living things can grouped further into 4 main groups.



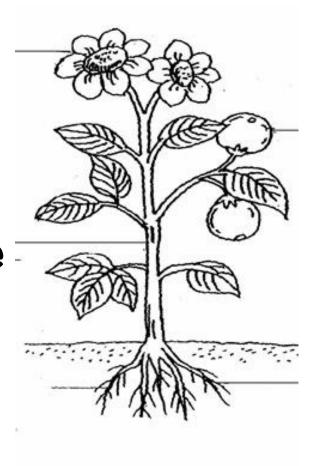
### What are plants?

 Plants are living things that make their own food.



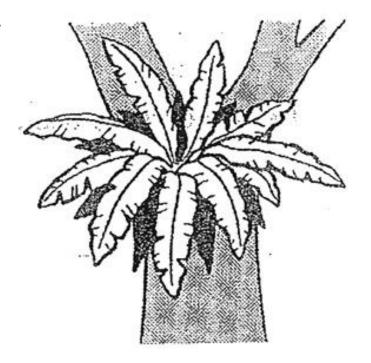
### Flowering Plants

- Reproduce by seeds
- They have plants parts such as
- -Flowers,
- -Fruits which contain the seeds



### Non-Flowering Plants

- Reproduce by spores
- The spores are usually inside spore bags.
- Spore bags found at the back of the leaves



#### Difference in Leaves

- All plants have different types of leaves.
- They can be classified into different groups according to

patterns of their vein OR shape of the leaves OR edge of the leaves

### Leaves by vein patterns

#### **Parallel Patterns**



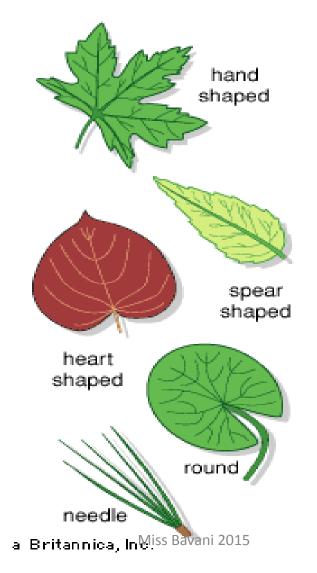
#### **Network Patterns**





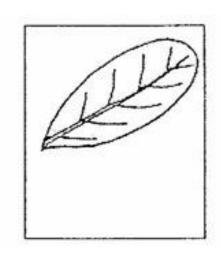
Miss Bavani 2015

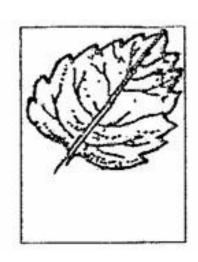
### Leaves by shapes



### Leaves by edges







lobed edge smooth edge jagged edge

#### What are Animals?

 Animals are living things that move from place to place freely to find food.

**Amphibians** Reptiles Animals **Mammals** Birds **Insects** Miss Bayani 20

# How are animals grouped?

• Animals are grouped by the special characteristics they share.

#### **Amphibians**

- smooth, slimy skin
- Live on land and water

#### Birds

- Covered with feathers
- Have 2 wings,a beak and 2 legs

#### **Fish**

- Breathe with gills
- Covered with scales

#### Reptiles

- Dry, rough skin
- Covered with scales

#### **Insects**

- 2 feelers, 3 body parts and 6 legs

#### **Mammals**

- Covered with hair
- Produce milk for the young.

Miss Bayani 2015

#### Some examples

Some additional information.

#### **Amphibians**

- Use lungs to breathe on land
  - Use skin to breathe in water

#### Birds

- Penguin and Ostrich are examples of birds that cannot fly

#### **Fish**

- Most fish lay eggs
- Guppies and Goldfish give birth to young alive

#### Reptiles

- Tortoise, lizard and crocodile are reptiles

#### **Insects**

- Hard outer covering (exoskeleton)
- Some have wings and some do not have wings

#### **Mammals**

Dolphin and Whale are mammals that live in water Platypus and anteater lays

Miss Bavani 2015

eggs

### What are Fungi?

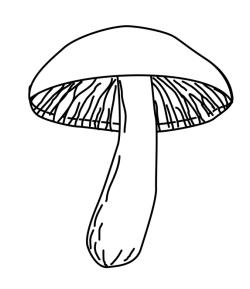
- Fungi are living things that absorb its food.
- It can be found growing on living things and things once alive.

Fungi reproduce by spores.



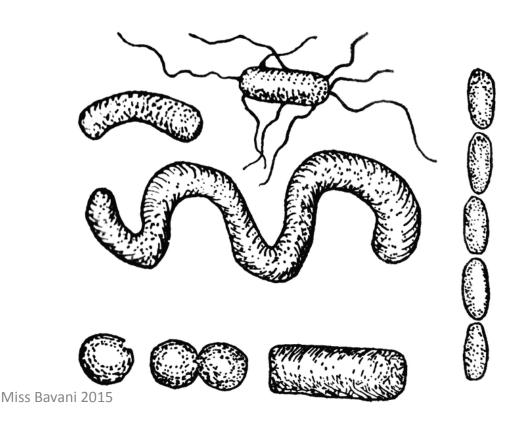
### What are Fungi?

- Most fungi can be seen with naked eye.
  - Mould, Mushroom, Toadstool
- Some fungi cannot be seen with naked eye.
  - Yeast



#### What is Bacteria?

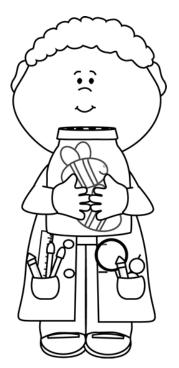
- Bacteria are the living things that cannot be seen by naked eye.
- Bacteria come in many shapes.
- Bacteria reproduce by splitting



## Science Notes

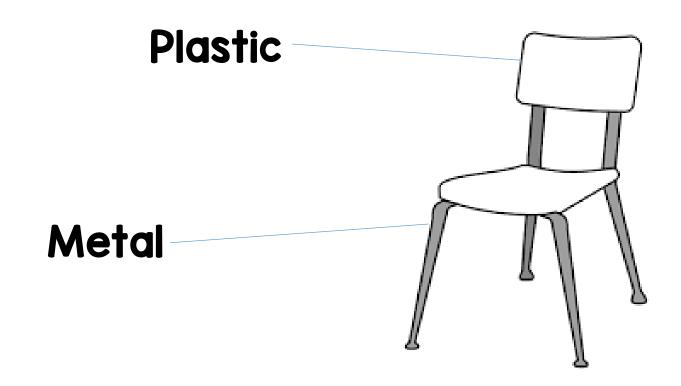
P3 Diversity

Materials



#### What are materials?

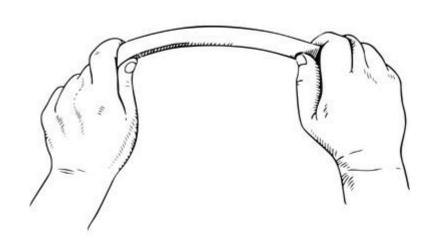
Materials are used to build objects.



#### What are materials?

- Examples of Materials are
  - Wood
  - Metal
  - Fabric
  - · Ceramic
  - Plastic
  - Glass
  - Rubber

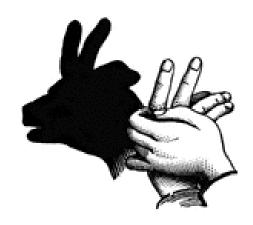
 Flexible: The material can be bended without breaking



 Strong: The material that does not break easily by mass or force



- Transparent: The material that allows light to pass through.
- If a material does not allow light to pass through, it forms a shadow.



 Waterproof: The material that does not absorb water.

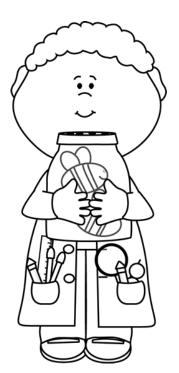
 Waterproof material also does not allow water to pass through

- Ability to float or sink.
- A floating material or object will be at least partially above water.
- A sinking material or object will be fall right to the bottom.

## Science Notes

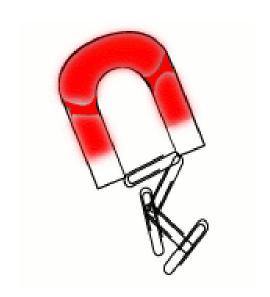
P3 Interactions

Magnets



### What can magnets do?

- Attract magnetic materials
- · Iron
- Steel
- Cobalt
- Nickel

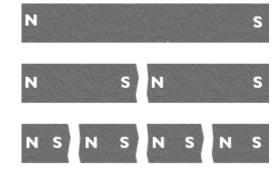


 Magnets can also be made from magnetic materials

### What do magnets have?

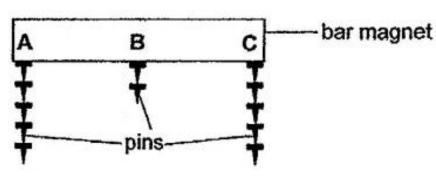
Magnets have two poles, called North

pole and South pole.



• These poles are the strongest part of

the magnet



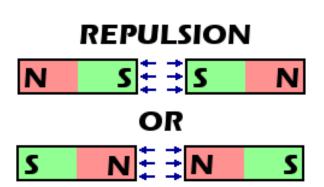
# How do magnets interact?

 Magnets have two poles, called North pole and South pole.

Like poles repel (push)



Unlike poles attract (pull)



### Summary

- Magnets
  - Attract magnetic materials and unlike pole of another magnet
  - Only repel like pole of another magnet
  - So you can identify a magnet by repulsion.