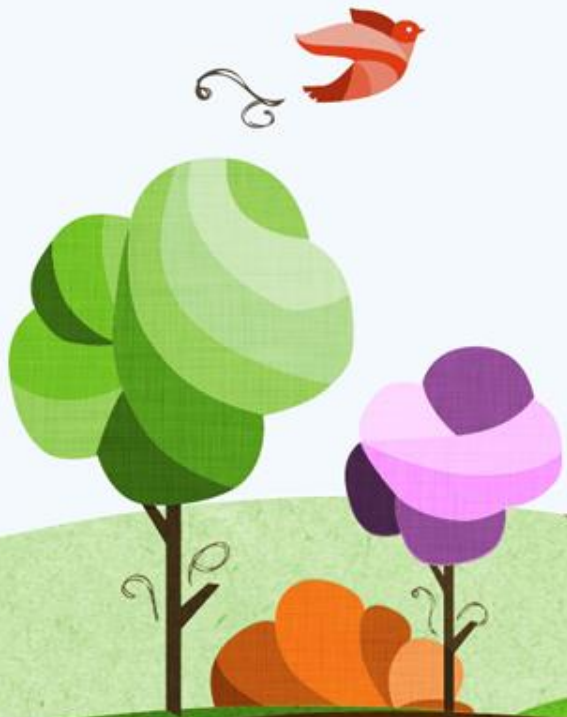


# Observing Living Things



Identify the 7  
behaviours of living  
things from the  
following pictures

For each picture, write why you  
think it is showing a trait of a living  
thing.



1.



2.



3.



4.



5.



6.





7.



8.



9.

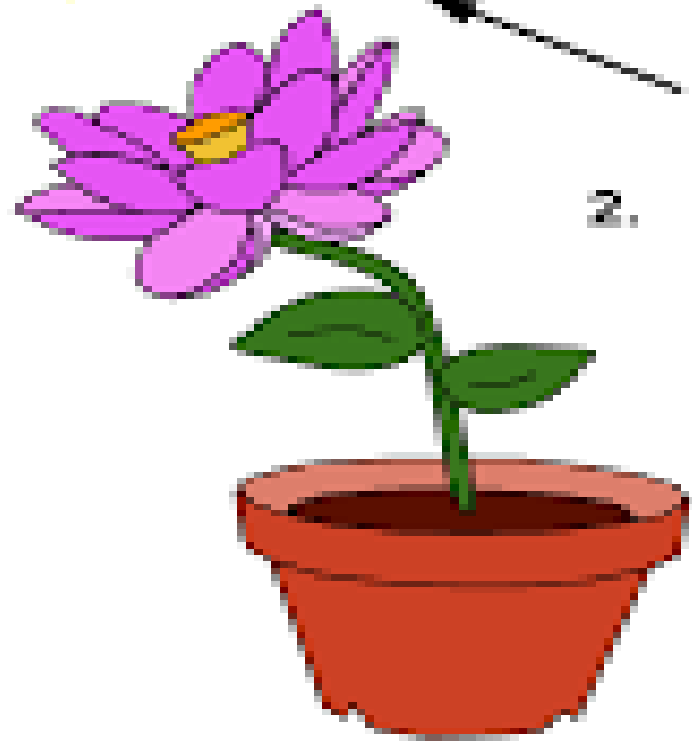




1.



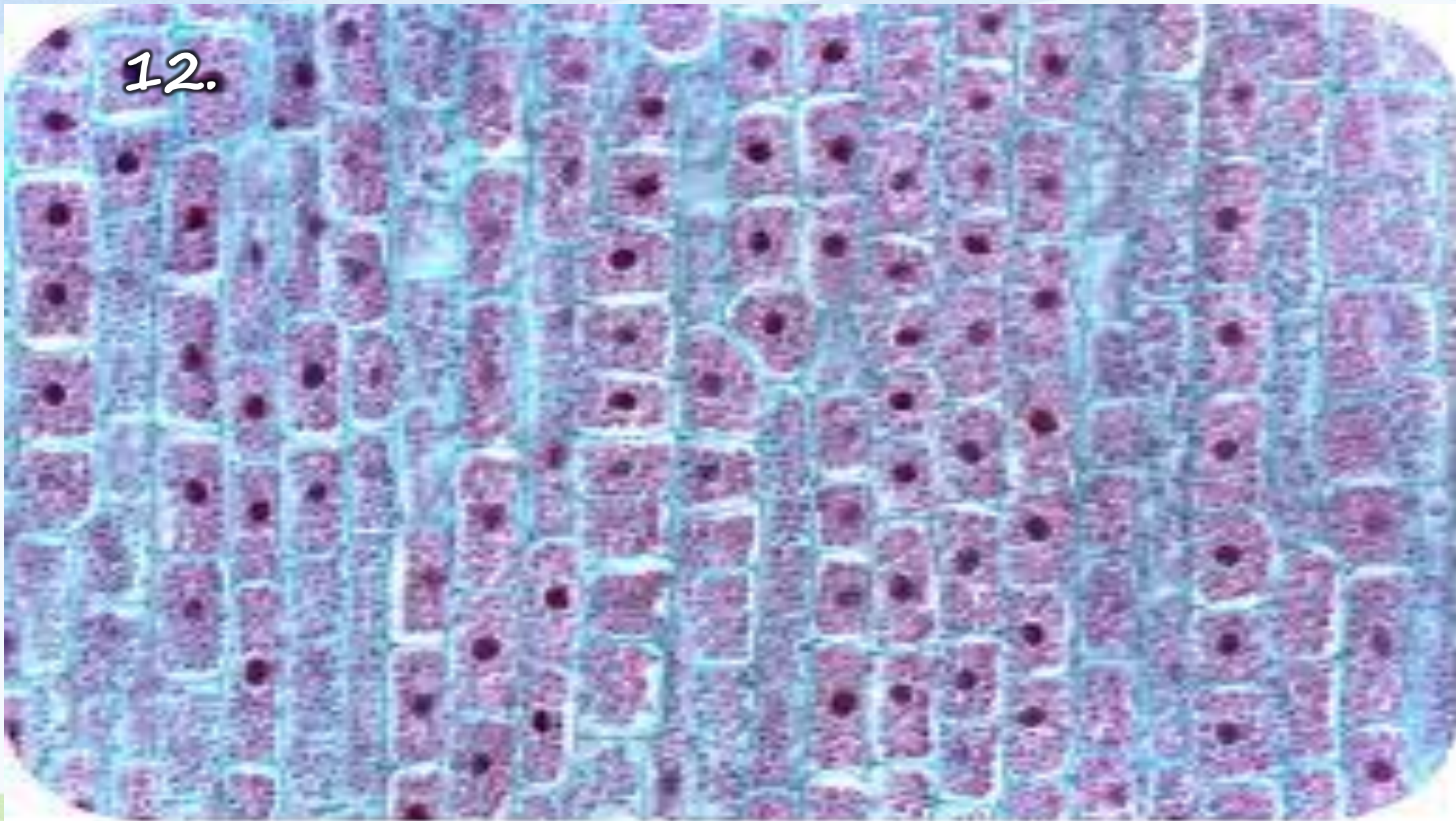
2.



11.



12.

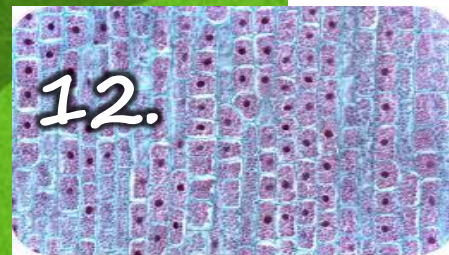
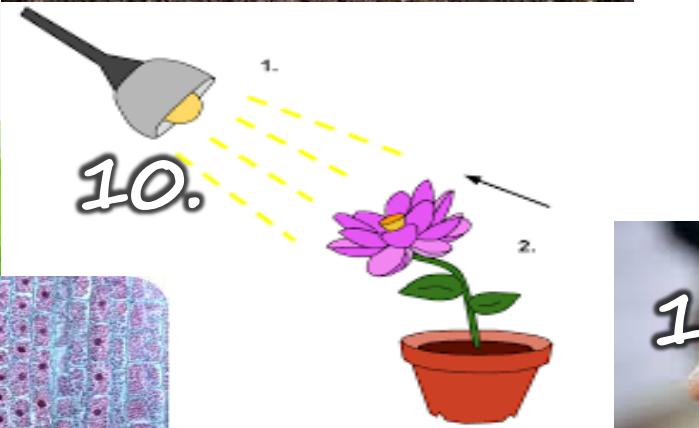


13.



# Identify the 7 behaviours of living things from the pictures below.

For each picture, write what you think it is showing a trait of a living thing.





# All Living Things...

1. Are made up of cells.
2. Respond to environment/stimuli.
3. Need energy.
4. Move (at a cellular level).
5. Grow.
6. Reproduce.
7. Eliminate waste.

# Living Things

- Living things can survive in almost any type of environment.
- All living things have special features that help them survive in their environment.

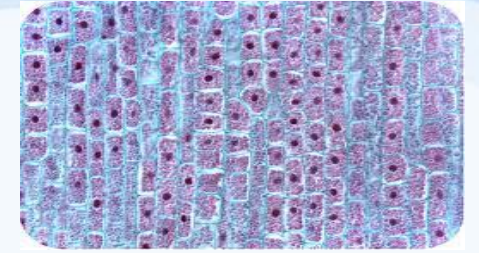
# Honey Mushroom – largest living thing on Earth



# Rhinoceros Beetle – strongest living thing on Earth



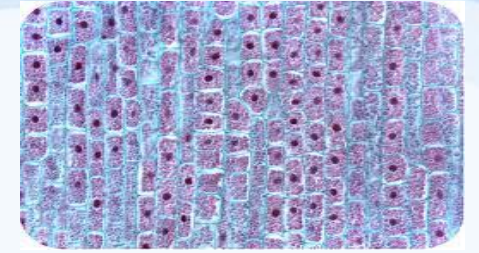
# Characteristics of Living Things



1. Living things... are made up of cells.

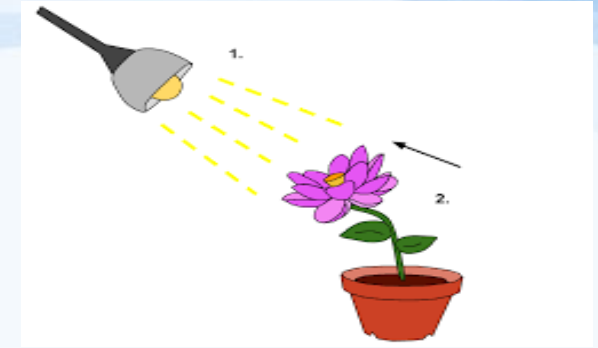
- Cells are the basic unit of life
- Ex. Unicellular – organisms made up of one cell
  - Bacteria
- Ex. Multicellular – organisms made up of more than one cell
  - Human being

# Characteristic of Living Things



- More than half of all the cells in the body are bacteria.
- Majority are found within the digestive tract.
- Billions of bacterial cells live on the skin.
- Humans have about 37 trillion cells.
- Most of the cells in your body are replaced every 7-10 years.
- Some white blood cells last only two days.
- Cells in your eyes will last your entire life.

# Characteristic of Living Things

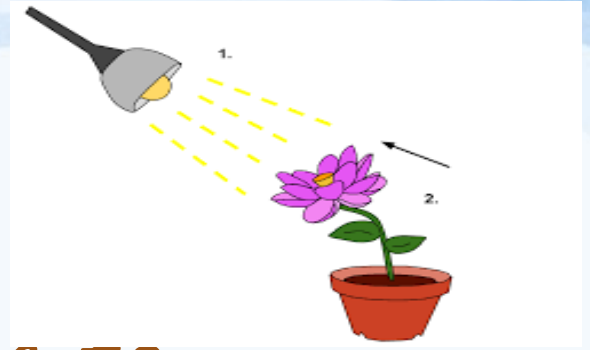


2. Living Things... respond to environment/stimuli.

- Anything that causes a living thing to respond is called a stimulus.
- Ex. Feelings of hunger and thirst
- Ex. Dog flicks up ears in response to noise

# Characteristic of Living Things

- Pupils dilate and constrict in response to light.
- Hibernation and shedding of fur are a response to temperature change.
- Eyes blink in response to dryness.





# Characteristic of Living Things



3. Living things... need energy.

- To respond to the environment, living things require energy.
- Living things have different ways of getting energy.
- Ex: food for humans, carbon dioxide/water/sunlight for plants.

# Characteristic of Living Things



- Plants prepare their own food by the process of photosynthesis.
- Animals cannot prepare their own food and depend on plants and animals for their food.
- Ingestion → Digestion → Absorption → Assimilation → Egestion

# Characteristic of Living Things



4. Living things... move (at a cellular level).

- All living things move in some way.
- This may be obvious (animals walking) or less obvious (plants that move towards the sun).
- A microscope may be needed to observe movement at a cellular level.

# Characteristic of Living Things



- Humans are rare in the world of mammals because we are bipedal.
- Squirrels can walk upside down.
- Water spiders can walk on water.

# Characteristic of Living Things



5. Living things... grow.

- Growth is a result of cells in your body increasing in number.
- Cells are continually being replaced.

# Characteristic of Living Things



- Fastest growing organism is a type of algae that can grow at a rate of 60cm in one day.



- Growth is supported by good nutrition, enough sleep and regular exercise.

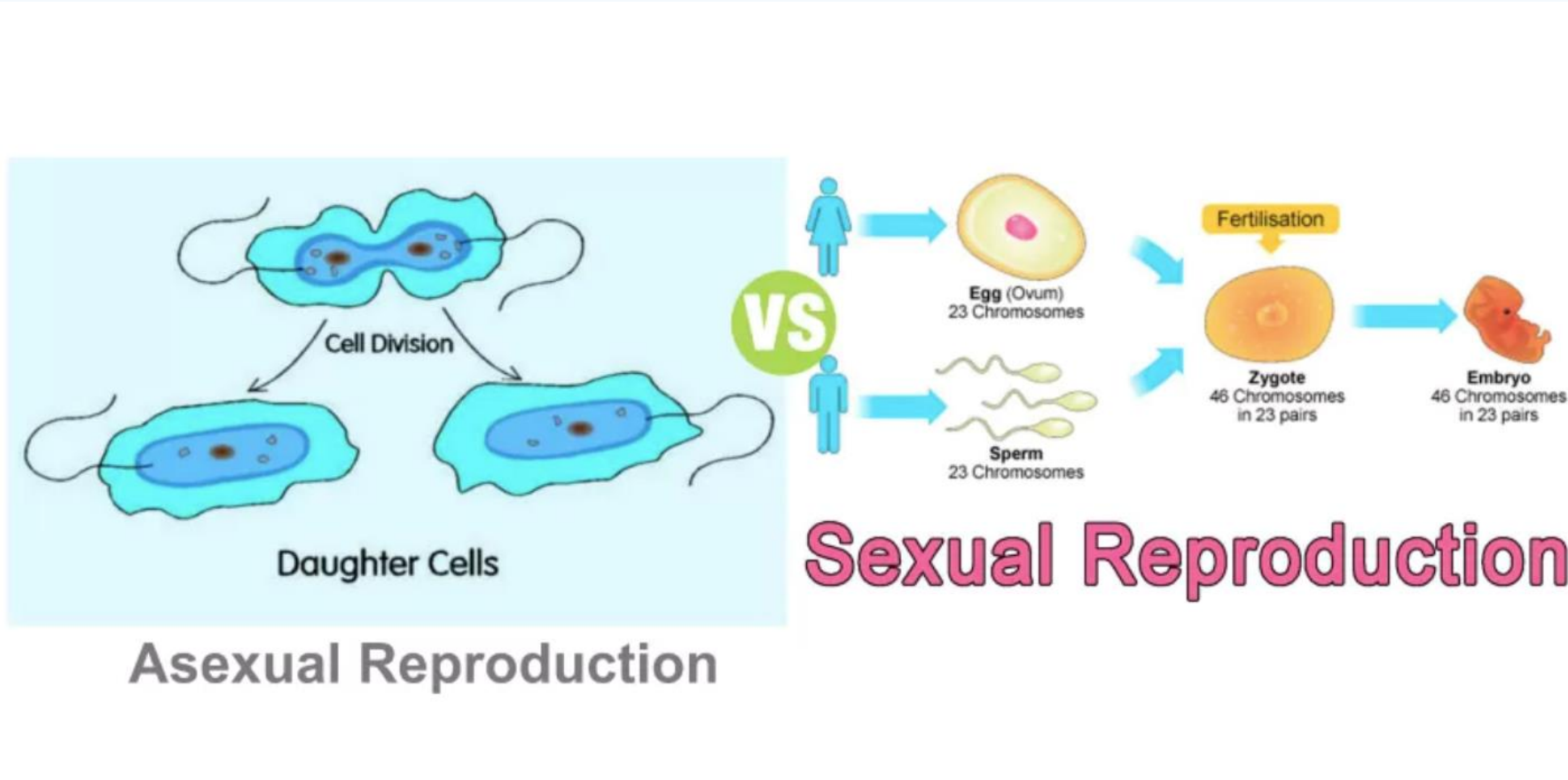
# Characteristic of Living Things



6. Living things... reproduce.

- A way for living things to replace older individuals that die.

# Characteristic of Living Things





# Characteristic of Living Things



7. Living things... must get rid of wastes.

- What living things consume are not always used by the body and therefore creates waste.
- Animals produce waste such as carbon dioxide, urine and feces.

# Characteristic of Living Things



- Human feces is mostly bacteria.
- Feces is brown due to dead red blood cells and bile.
- There is a Bristol Stool Scale
- Wombat's feces come out in cube shapes



# Characteristic of Living Things



- Cat urine glows under black light.
- The world record for the longest pee is 8.5 minutes
- Urine can be a window to your overall health
  - Smell of ammonia → dehydration
  - Musty smell → liver disease
  - Foul smell → bladder infection
  - Sweet smell → diabetes



# Characteristic of Living Things

- Gum and soda make you pass gas more
- Passing gas is a result of a healthy, complex ecosystem in your intestines
- Why do we pass gas?

# On your sheets...

While watching the video, find examples of how each characteristic is demonstrated.

1. Are made up of cells.
2. Respond to environment/stimuli.
3. Need energy.
4. Move (at a cellular level).
5. Grow.
6. Reproduce.
7. Eliminate waste.