

LIVING THINGS

Animal and Plant Groups

LIVING THINGS

Both animals and plants are able to:

1. obtain food
2. obtain air
3. move
4. grow
5. react 反應 to stimuli 刺激物
6. excrete 排泄
7. reproduce 繁殖

A "living thing" should have the above 7 factors.



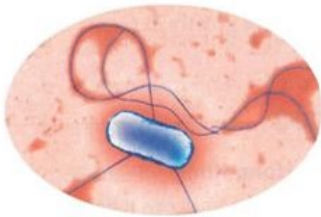
ANIMALS



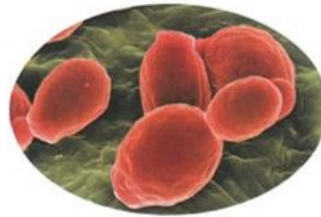
PLANTS



Microorganisms



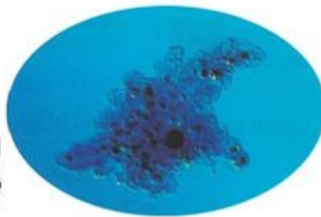
Bacterium
(x 10 thousands)



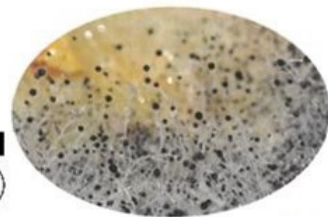
Yeast
(x thousands)



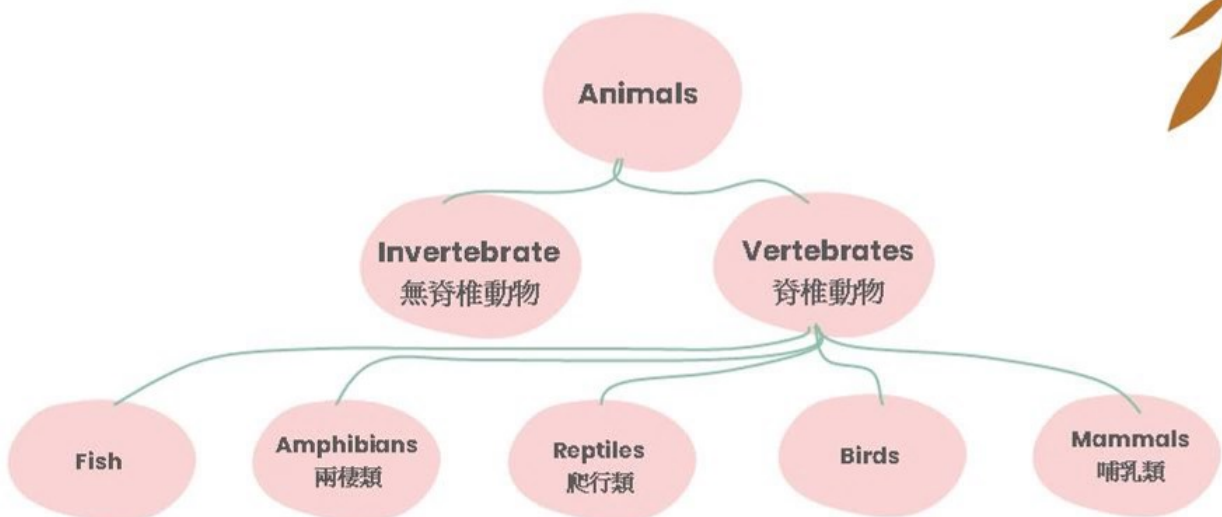
Amoeba
(x dozens)



Bread mould
(x few times)



GROUPING OF ANIMALS



VETEBRATES OR INVERTEBRATES?



Octopus
Invertebrate



Dog
Vertebrate



Crab
Invertebrate



Bat
Vertebrate



Snake
Vertebrate



Jellyfish
Invertebrate

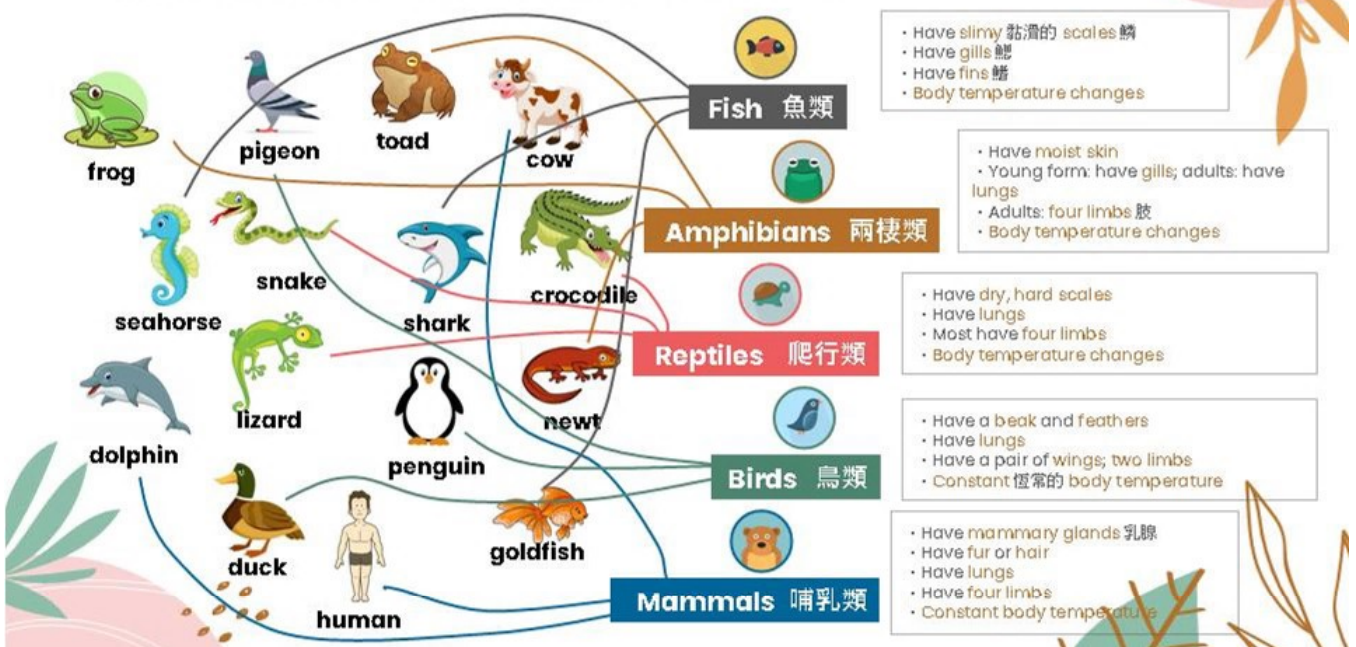


Butterfly
Invertebrate

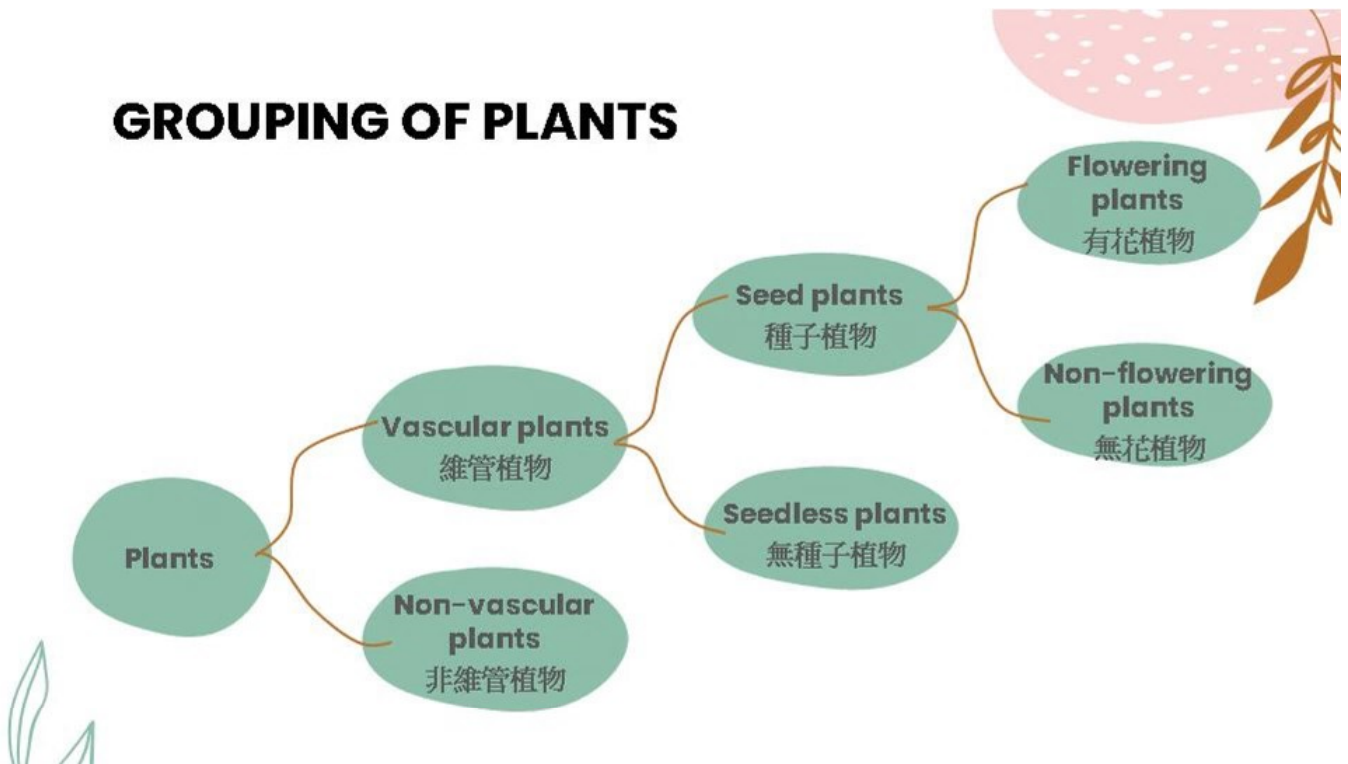


Tortoise
Vertebrate

GROUPING OF VERTEBRATES



GROUPING OF PLANTS



VASCULAR OR NON-VASCULAR PLANTS?

Non-vascular plants

- Have **no vascular tissues**
- Grow in **damp** places
- Have **simple stems** and **leaves** only
- Have **no roots**
- Most are **small**



Liverwort 地錢



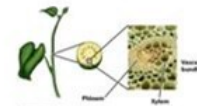
Mosses 苔蘚

Vascular plants

- Have **vascular tissues** (transporting water and food)
- Adapted to live in **dry** places
- Have **true stems** and **leaves**
- Have **true roots**
- **Larger** than non-vascular plants

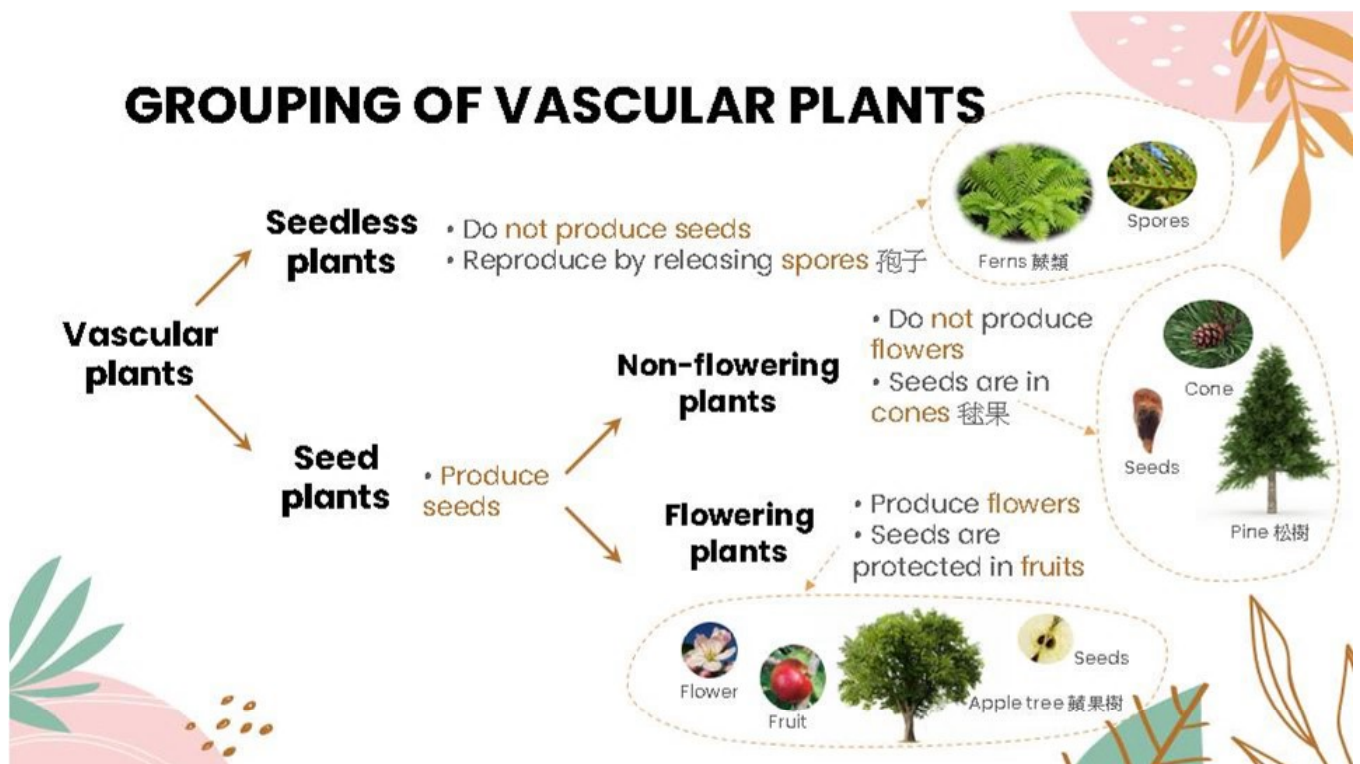


Cross-section of celery 芹菜 stalk



Vascular tissue

GROUPING OF VASCULAR PLANTS



THANKS!

Do you have any questions?
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