Livingston's Arachnids, Insects, and Other Creatures

by María José Toralla Biology student (USAC) Research assistant (FLAAR)

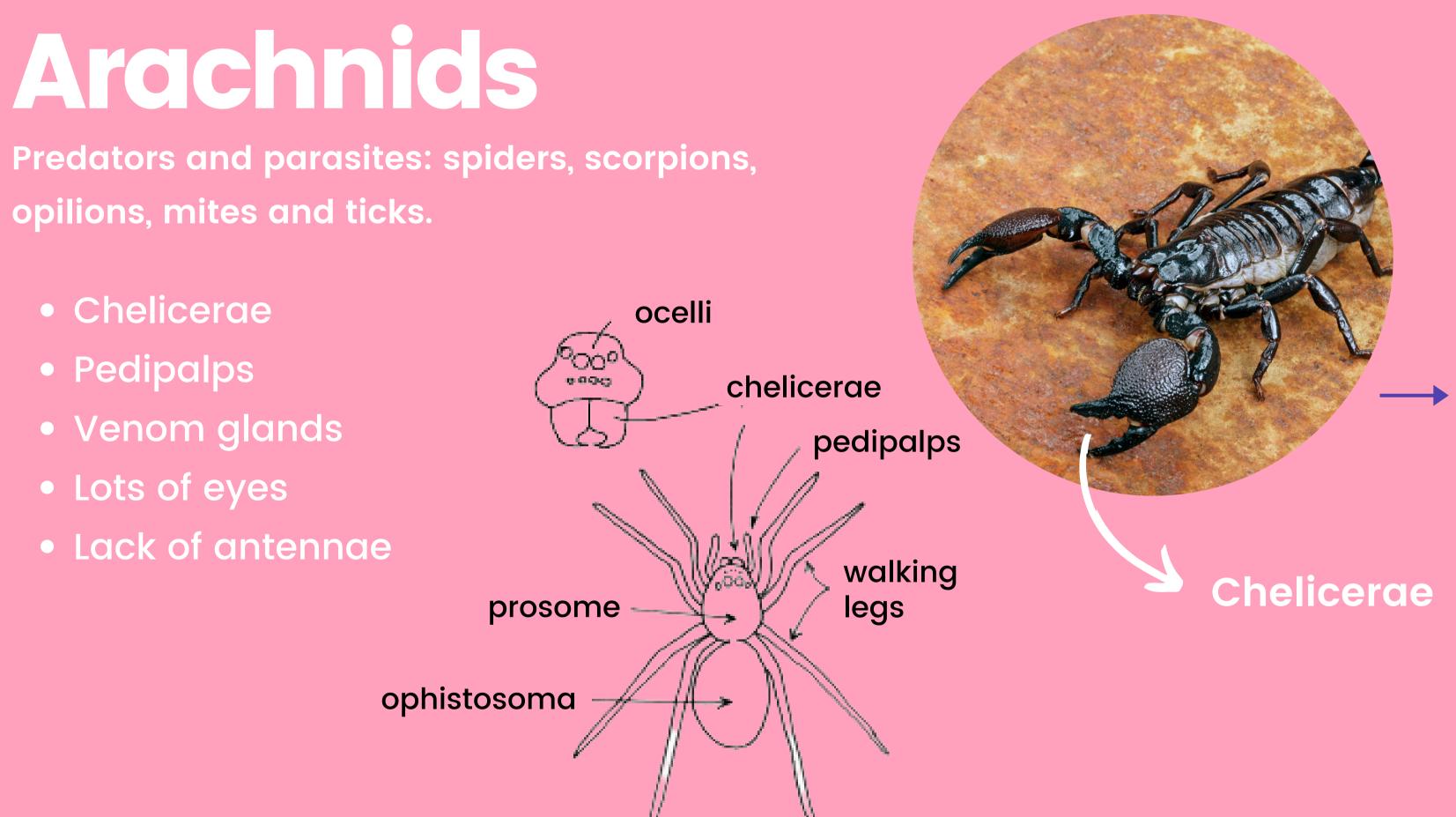






Predators and parasites: spiders, scorpions, opilions, mites and ticks.

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In Livingston

- Phrynus operculatus and Phyrnus parvulus
- Petén, Alta Verapaz, Guatemala, Sacatepéquez and Izabal
- Tapon Creek and El Rosario







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Insects



antennae.

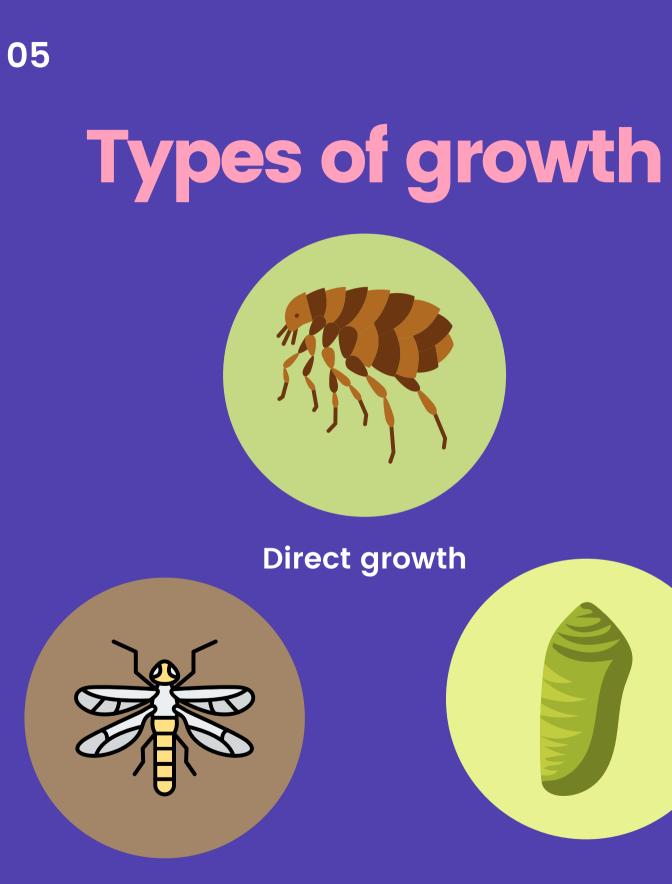
into three sections:

2. Thorax: locomotion

They are easily distinguished because most have six legs, four wings and two

- Unlike arachnids, the body is divided
 - 1. Head: sensory and food
 - 3. Abdomen: internal apparatus





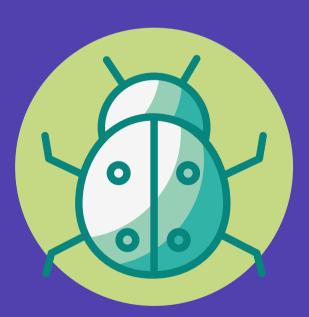
Incomplete metamorphosis

Complete metamorphosis



Ecological function





decomposers



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In Livingston

- In Guatemala there are insects from 1mm to 20mm wingspan.
- Lagunita Creek, Tapon Creek, Río Chocoón Machacas and Rio Blanco.
- Butterflies Rhetus arcius*, in Rio Blanco







*unofficial identification

Chalcidoidea Parasitic wasps

Rhetus arcius*

Amphibians Cecilia, salamanders, frogs and toads



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Characteristic:

- With mucous and poisonous glands.
- They lay shell-less eggs.
- They undergo metamorphosis.
- They are highly endangered vertebrates.
- **Ecological function:**





In Livingston



Tlalocohyla loquax

This is an important biological zone that includes several species of amphibians including:

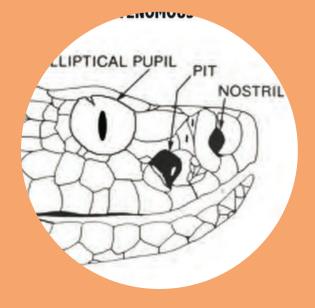
- Tlalocohyla *loquax*
- Leptodactylus pentadactylus
- Agalychnis callidryas

In Guatemala is the Cerro San Gil, which covers the municipalities of Puerto Barrios, Livingston and Morales in Izabal.





 Dry skin covered with scales. 	1. Turtles
• Ectotherms.	2.Lizards c
 They have very good vision and some 	
lack eyelids.	3.Crocodil
 Thermo-sensory pits. 	4. Tuataras



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and snakes

liles



In Livingston

There are 386 species of reptiles in Guatemala and 134 are snakes



Coniophanes imperialis

Clelia clelia



Thanks for your attention



You can contact me via email at: majotorallaflaar@gmail.com

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