Restoring Connections

A project of:
The Environmental Leadership Program
University of Oregon
Spring 2020

Materials For Today

- Paper
- Pencil
- Coloring materials
- Your sit spot journal

https://www.cleanpng.com/png-editing-computer-icons-clip-art-text-board-5321666/preview.html

3rd Grade Lesson 5

Garrett Reagan

Zoe O'Toole

Photo courtesy of Jenny Laxton

Meet the Teachers

Ellie

Katy

Garrett

Zoe

I’m Garrett! I’ll be teaching your lesson today.
Thanks so much for joining us!

Mt Pisgah Updates

Introduce Yourself!

- What is your name?
- What is your favorite plant from Mt. Pisgah?

Introduction to the Day

- In today's lesson, we will:
  - Share sit spot journals and ecochallenges
  - Discuss life cycles
  - Complete a life cycle activity
  - Talk about our ecochallenge

Sit Spot Journal Check-In

- What has changed since last week?

https://fluidicthought.com/2016/05/30/outback-australia-bird-politics/

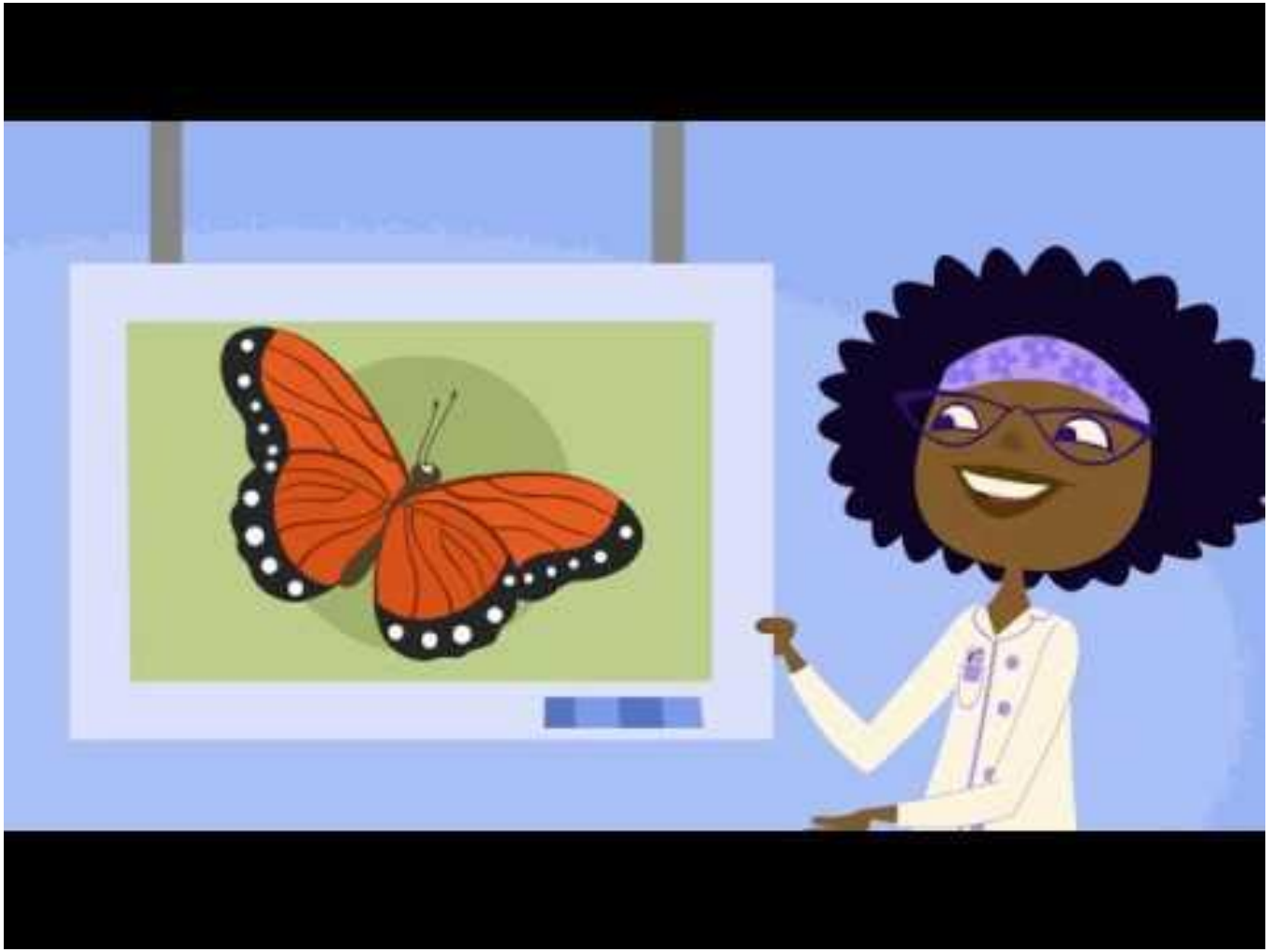
Ecochallenge Check-In

- What plants did you observe?
- What differences did you notice?

https://www.boredpanda.com/cute-bumblebee-butt/?utm_source=google&utm_medium=organic&utm_campaign=organic

Can someone tell me what a life cycle is?

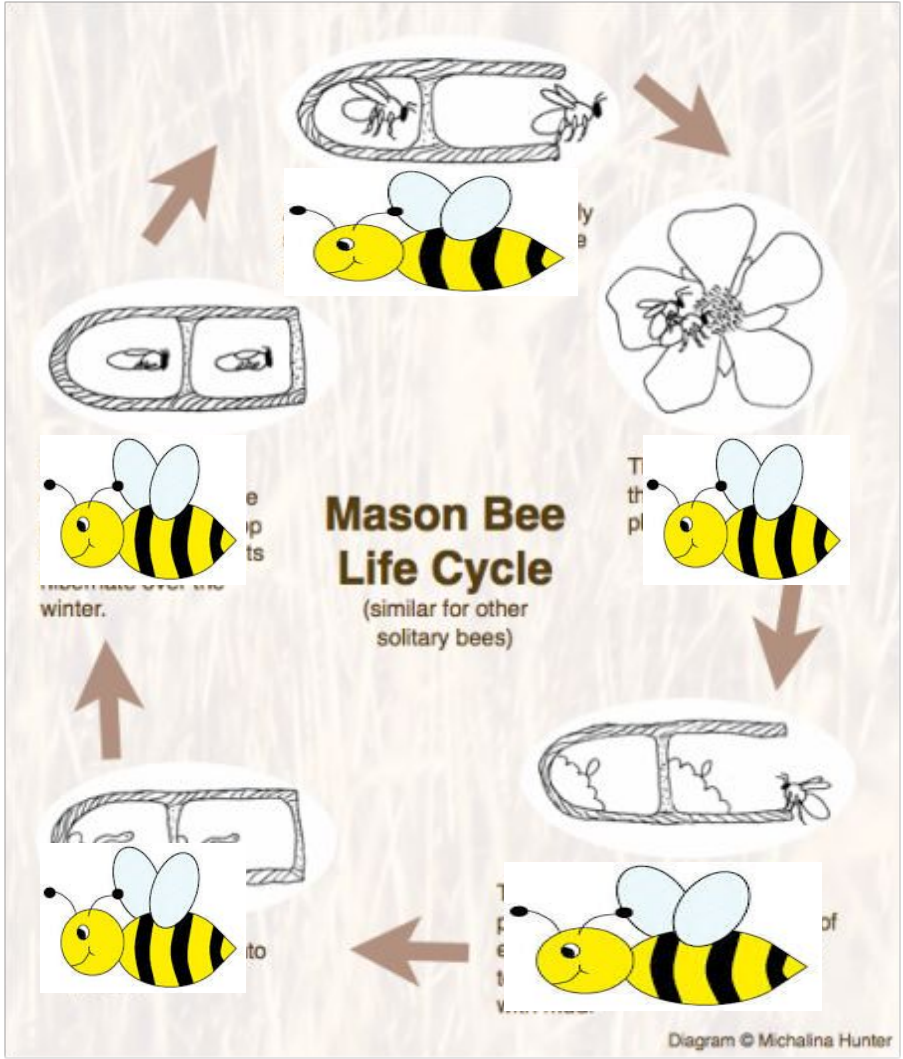
https://encrypted-tbn0.gstatic.com/images?q=tbn%3AANd9GcT9t-dIC1U_P-JPXCH50ObaApS5a-BvVzke-OHVkd0CUS6xYURb&usqp=CAU



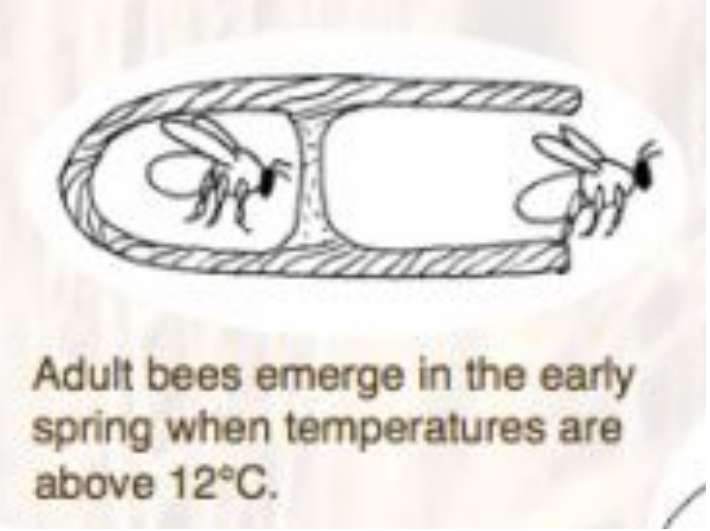
Life Cycle Activity!

- We’re going to go over a variety of different species life cycles!
- We will start with a Mason Bee then a Townsend’s Big-Eared Bat.
- We’re going to ask for volunteers to tell us what they think each stage is!
- Get ready!

Mason Bee Life Cycle!

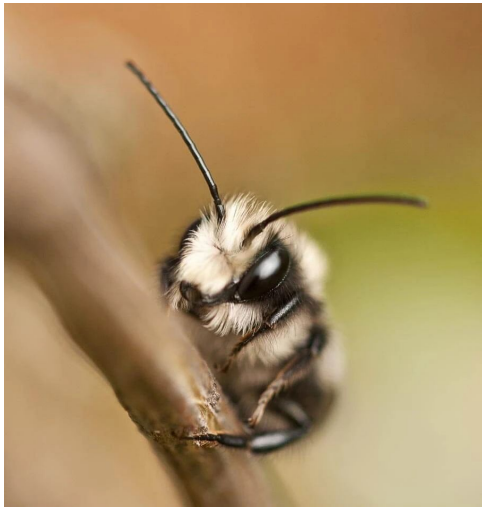

Mason Bee
Life Cycle
(similar for other
solitary bees)
winter.
Diagram © Michalina Hunter

Adults Emerging!

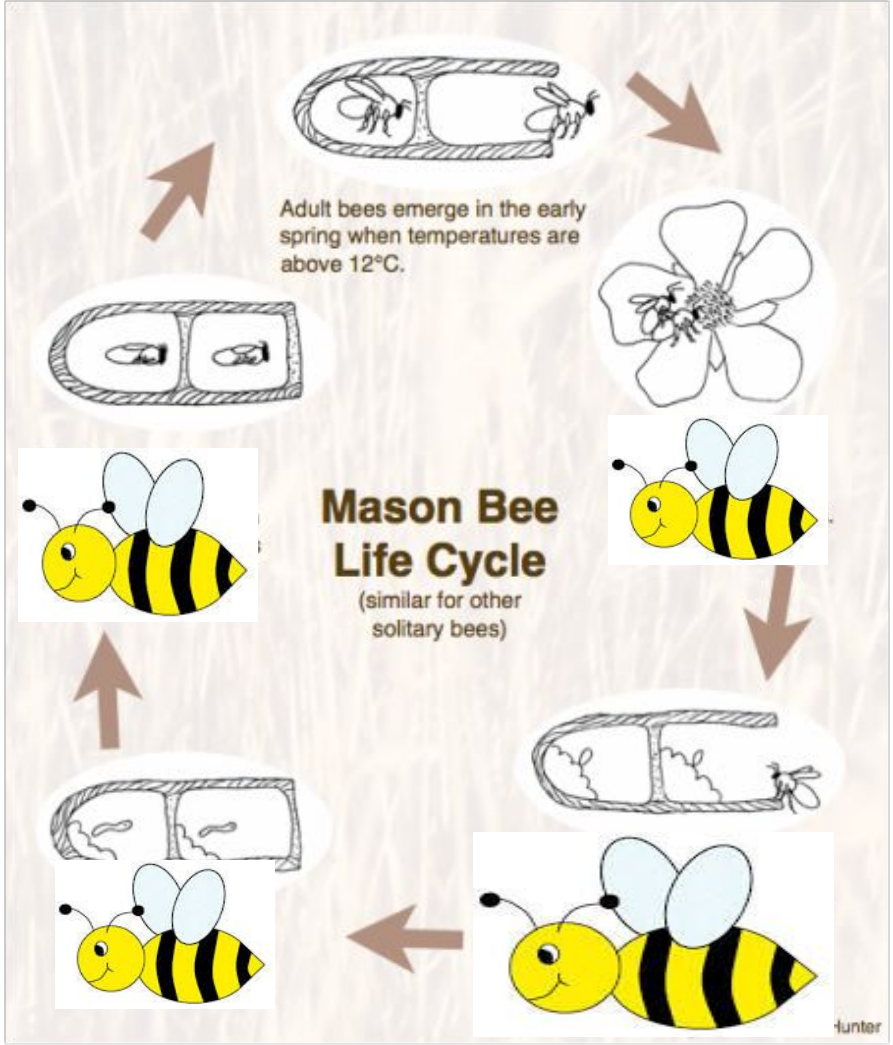


Adult bees emerge in the early spring when temperatures are above 12°C.

https://www.montananaturalist.org/mason-bee-hatch-1/



https://www.westcoastseeds.com/blogs/garden-wisdom/year-mason-bee-keeping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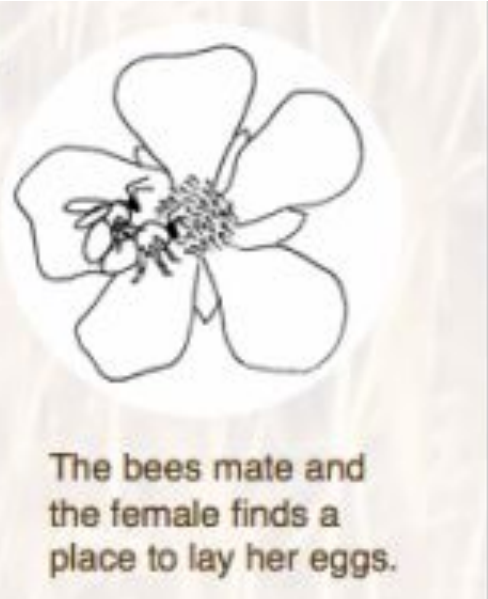
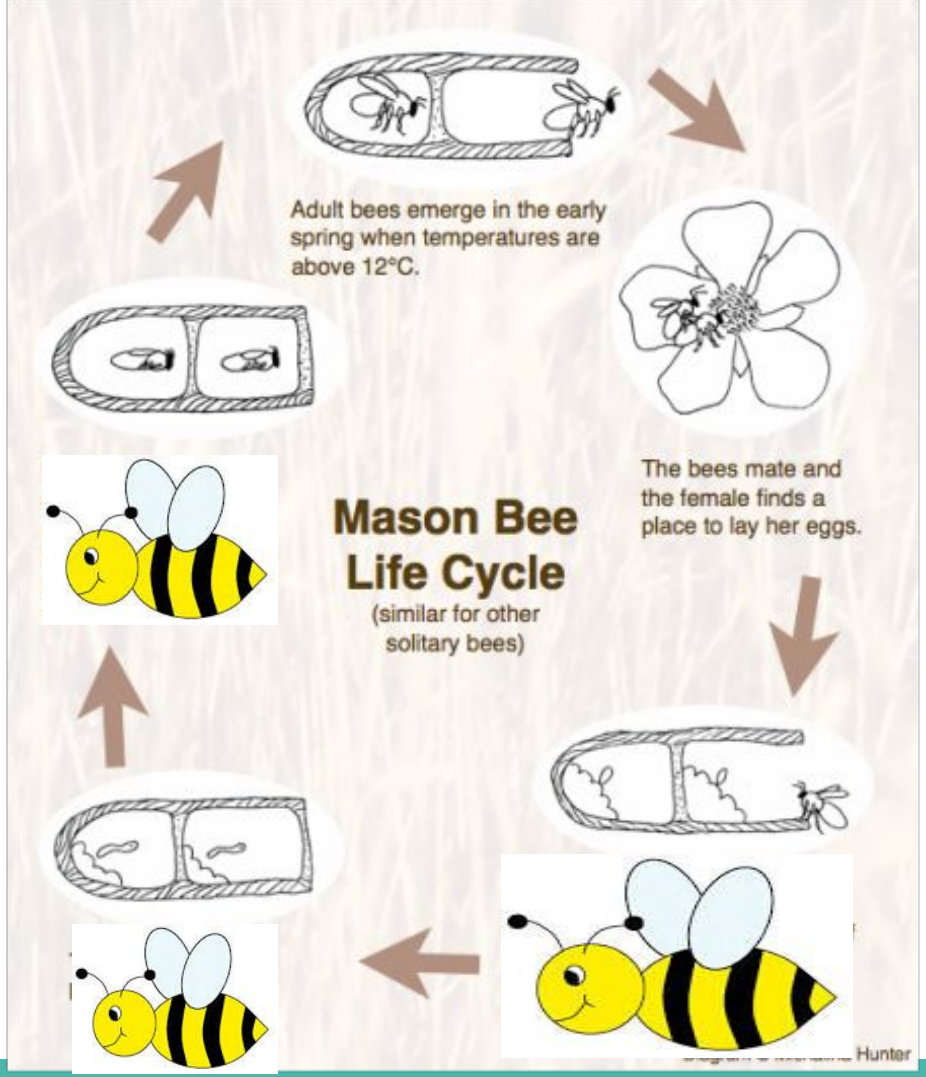
Mason Bee Life Cycle
(similar for other solitary bees)
Hunter

Mating

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The bees mate and the female finds a place to lay her eggs.
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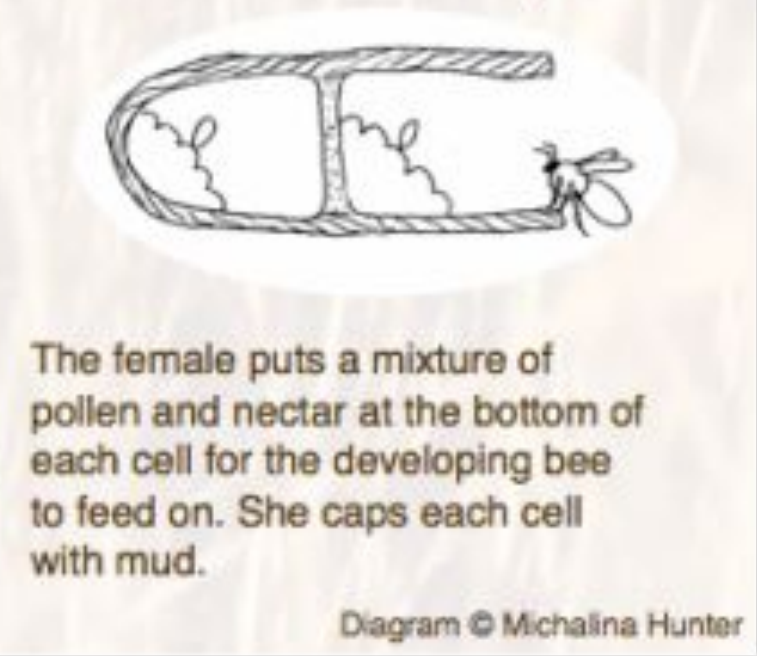
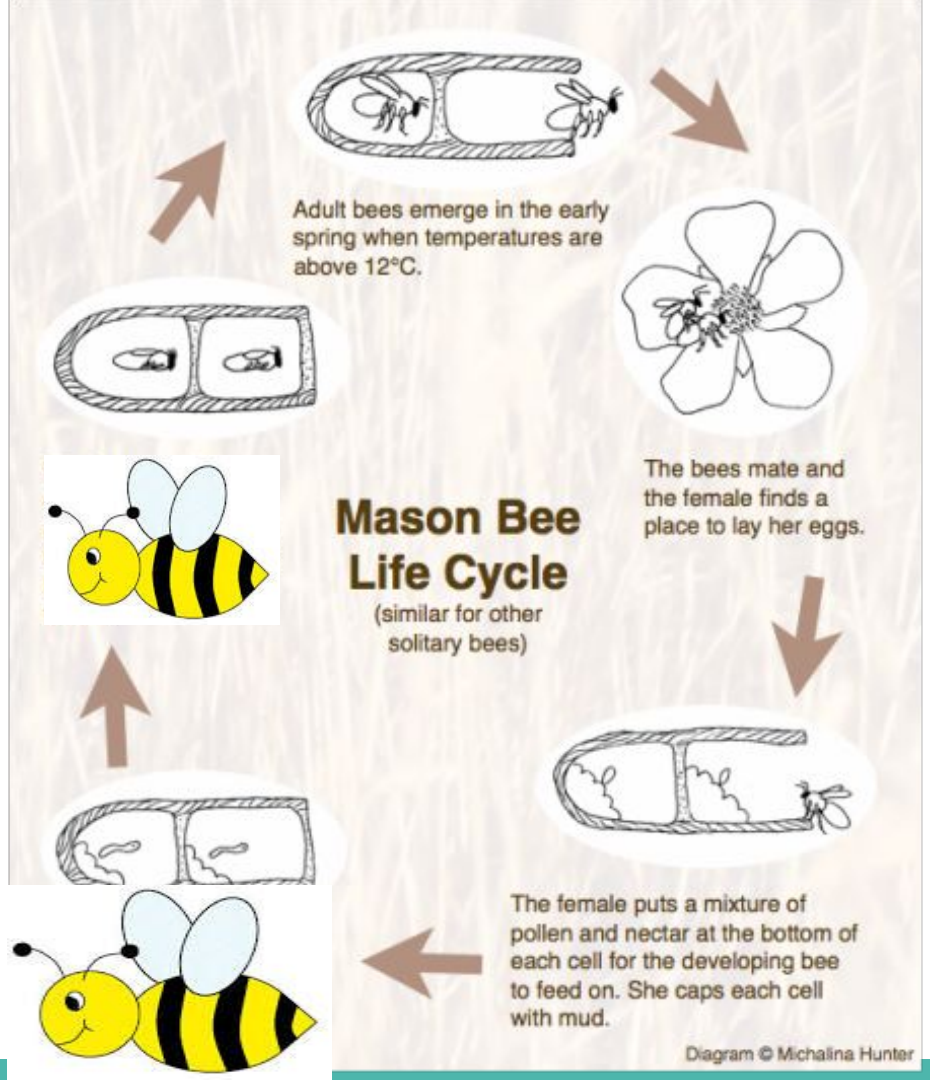
Feeding developing bees!



https://friendsoftheearth.uk/bees/make-a-bee-house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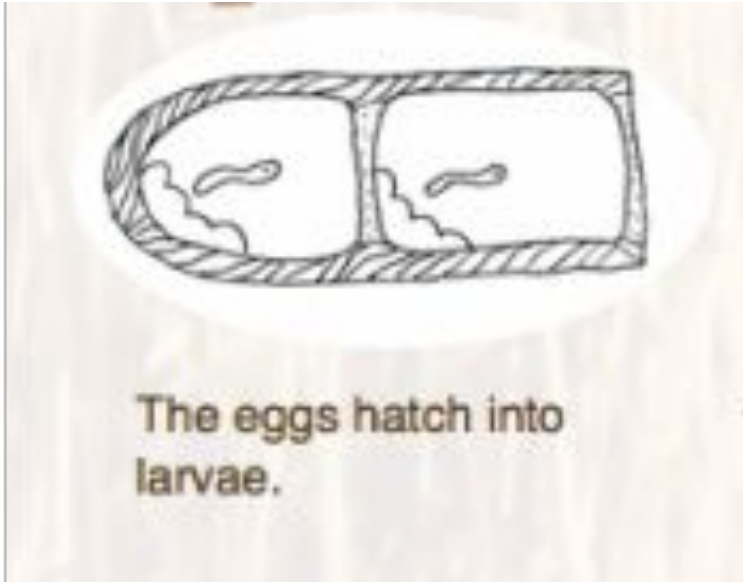
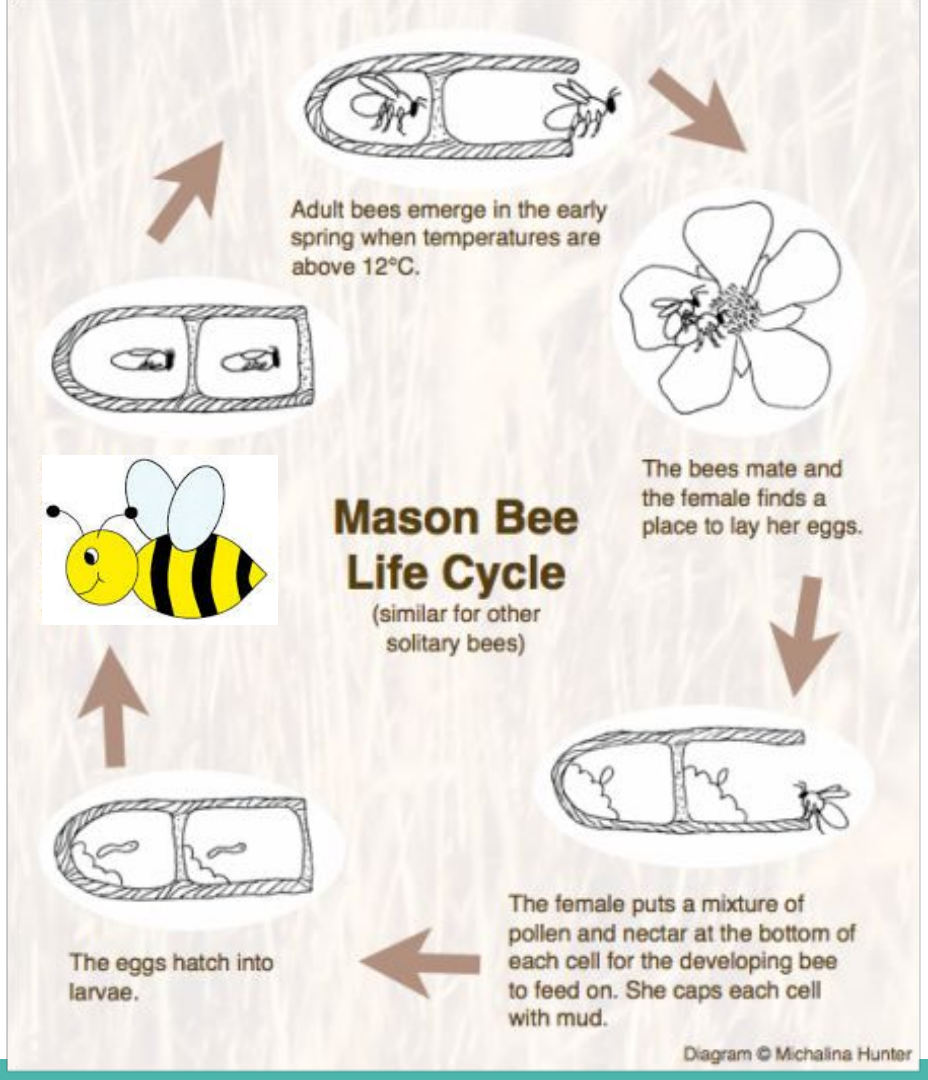
(similar for other solitary bees)
The female puts a mixture of pollen and nectar at the bottom of each cell for the developing bee to feed on. She caps each cell with mud.
Diagram © Michalina Hunter

Hatching/Larvae



https://www.urbanfarm.org/2019/06/29/nativebees/spring-mason-bee-larvae/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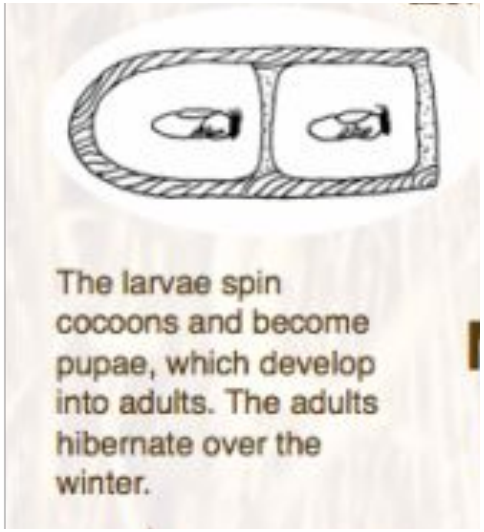
The eggs hatch into larvae.
Diagram © Michalina Hunter

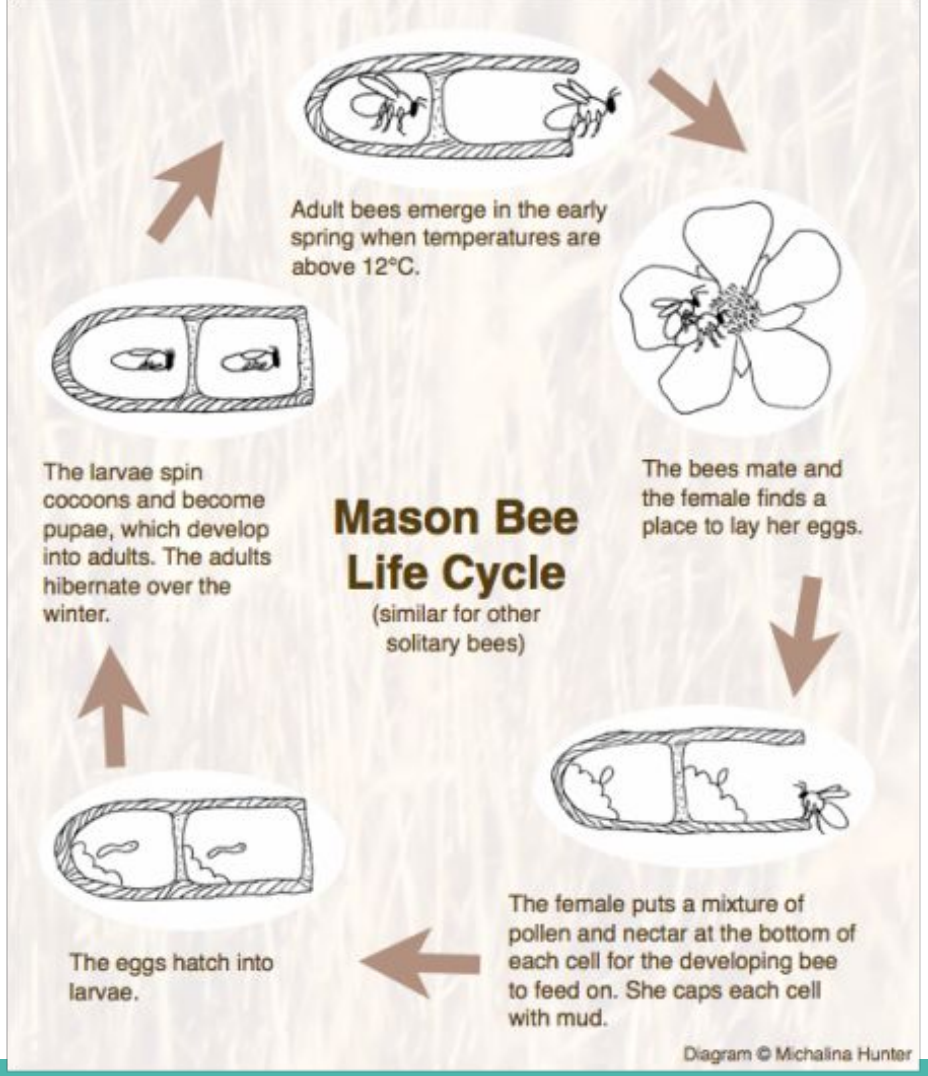
Spinning cocoons/becoming pupae!



The larvae spin cocoons and become pupae, which develop into adults. The adults hibernate over the winter.

https://crownbees.com/faq-central/post/wild-bee-cocoon-guide.html

Complete Life Cycle



Townsend's Big-Eared Bat Life Cycle

https://www.sierraclub.org/sierra/2017-6-november-december/opening-photo/behold-bat-mid-air

Colonies

Female bats form colonies in the spring, males are solitary during this time.

http://fieldguide.mt.gov/speciesDetail.aspx?elcode=AMACC08010

Birth

Most female bats gives birth to one pup in late spring or early summer.

Photo by Jenny Laxton

Pups

At about three weeks old pups learn how to fly.

https://www.nps.gov/chis/learn/nature/townsends-bats.htm

Adulthood

Adulthood is the final stage in the life cycle. The bats live for 4-10 years.

https://www.desertmuseum.org/kids/bats/townsends.php

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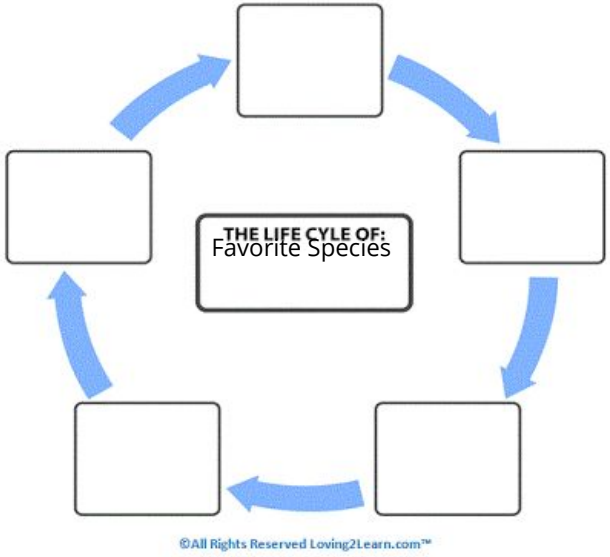
Draw your own life cycle!

- Pick a species of plant or animal
- What stages of life does this species g through?
- Take five minutes and draw your own life cycle on a sheet of paper.
- When time is up we will share.



Ecochallenge

- Trees give us many gifts. Describe some of the gifts that trees give to our world.

Materials for next week

- Paper
- Pencil
- Your sit spot journal
- Your ecochallenge observations
- A good attitude!

https://www.cleanpng.com/png-editing-computer-icons-clip-art-text-board-5321666/preview.html

Wrap-Up

- See you again next week.
- Thank you for participating!

https://www.flickr.com/photos/szazszorszapathy/28251852336

Thank you to our Community Partners!

Mount Pisgah Arboretum

Elementary School
Adams

THE CONFEDERATED TRIBES OF GRAND RONDE

THE OREGON COMMUNITY FOUNDATION
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