

RESONATING BODIES

Trading Card Series 1

Buzz Pollination

RESONATING BODIES

Trading Card Series 1

Cleptoparasitism

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Vegetarians & Carnivores

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Social & Solitary

RESONATING BODIES

Trading Card Series 1

LIFESTYLES OF THE POLLINATORS

SERIES 2 OF 4

Social bees, like honey bees and bumble bees, live in groups. The queen lays the eggs, while many female workers rear the young. Male drones hatch seasonally. Bumble bees (pictured) are social; in Ontario their hives can have anywhere from under 20 to over 80 inhabitants seasonally, depending on how far north they live. Only the queens survive the winter, emerging the following spring to start completely new nests.

Compare with: 21. Solitary

*Pictured: Bombus impatiens.
Resonating Bodies Trading Cards Series 1 #20*

More info: <http://resonatingbodies.wordpress.com>

Social

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LIFESTYLES OF THE POLLINATORS

SERIES 1 OF 4

Bees are vegetarians, getting all of their nutrients from flowers. Nectar is their primary source of carbohydrates, while pollen provides them with protein.

The closest relatives to bees are predatory wasps that kill other insects to feed their young (bees evolved from wasps). Major adaptations that permitted bees to be vegetarian included the development of pollen collecting structures.

*Pictured: Bombus (Bumble Bee)
Resonating Bodies Trading Cards Series 1 #19*

More info: <http://resonatingbodies.wordpress.com>

Vegetarians & Carnivores

RESONATING BODIES

Trading Card Series 1

SUPER POWER SERIES 9 OF 9

Although bees can't leap tall buildings in a single bound, they have powers that make them unique. Bees have evolved specialized ways to find and collect food, to sense their environment and to help pollinate flowers, all of which are pretty super!

Instead of caring for their own young, cuckoo bees get their hosts to do it for them! *Bombus ashtoni* is a social parasite who infiltrates bumble bee colonies and subdues or kills the queen. The workers are then enslaved by this cuckoo to raise its young. This is known as cleptoparasitism (literally parasitism by theft).

Pictured: Bombus ashtoni does not have a corbicula (aka pollen basket) on the hind leg of the females. Since they are parasitic, they never collect pollen. Compare with *Bombus impatiens* (card #16 - super power series 7 of 9)
Resonating Bodies Trading Cards Series 1 #18

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Cleptoparasitism

RESONATING BODIES

Trading Card Series 1

SUPER POWER SERIES 8 OF 9

Although bees can't leap tall buildings in a single bound, they have powers that make them unique. Bees have evolved specialized ways to find and collect food, to sense their environment and to help pollinate flowers, all of which are pretty super!

Some plants, like tomatoes, eggplants and blueberries, keep their pollen in tubes with a single pore, like a salt shaker. To extract this pollen, bumble bees grab the flower and rapidly vibrate their thoracic muscles, or "buzz", to shake out the pollen, which often explodes out of the anther like fireworks!

*Pictured: Bombus impatiens.
Resonating Bodies Trading Cards Series 1 #17*

More info: <http://resonatingbodies.wordpress.com>

Buzz Pollination