

Bug's Life

21 Nov 10:30

Duty six : Purple

Start	Time	Activity	Requirements	Instructions	Scouter
It's a bugs life today. Imagine being as small as a bug					
21 Nov 10:30	5	Activities : Opening	Register, beans, flag, totem and skin	Grand Howl Flag Break Register Inspection - belts and shoes	Akela
The ants hide the seeds from the grasshoppers but can the grasshoppers are good at finding things					
21 Nov 10:35	10	Game : Squirrels and Robbers		There are lots of robberies in the woods. The squirrel hides some nuts and the other animals steal, or the squirrel cannot find his hide out any more and is starving. The game involves the group being split into squirrels and robbers. The squirrels hide their nuts in the playing field (approx. 50x50m depending on the area available). The robbers are allowed to watch the squirrels from the edge of the playing field (or at a distance of 5 meters). In each round, the squirrels and robbers must spread out and collect a certain amount of nuts, which is different in each round, (depending on the size of the area and the difficulty level required, each round lasts from a few seconds up to 1-2 minutes). The players who do not manage this are out of the game. Image: By EstebanVel (Own work) [CC BY-SA 4.0 via Wikimedia Commons]	Mang
Worms make tunnels just like ants. We are making some worm farms so that you can see how they do it					
21 Nov 10:45	30	Activities : Worm Farm		So you want to be a Vermiculturist or a Worm Wrangler? Raising worms can be an exciting activity and a great hobby. Do you have someone in your family that likes to go fishing or loves to garden? As a worm wrangler you can learn how raising worms can add fun to other family hobbies, as a vermicompost gardener you can smile and show off your prized flowers and favorite vegetables and just wait and see how excited the fisherman in your family gets when you show them how much your worms have grown. Your First Worm Bin! The easiest-to-build first worm bin is just a plastic or wooden box with air holes. It may be simple to you, but it's a dream home to redworms! For short term worm farms, use old glass bottles and make holes in the lids (old coffee bottles work well) Are you using the Right Worms? Earthworms live in many different environments. Some live under the ground, like nightcrawlers. Others live above the soil, wherever there are piles of leaves or animal manure or dead	Bagheera

plants. (You'll see them in our compost piles, too). Redworms won't live down in the soil. "So, don't take burrowing worms from your garden soil — they won't live in a worm composting bin."

Redworms Are People, Too!

You need air, water food and warmth to live. Redworms need the same things! They're a lot like people, really. Their needs, one-by-one, are:

Air You breathe through your mouth. Then air and oxygen go into to your lungs, where a moist layer of skin absorbs oxygen. Worms have lungs, too — their skin! The whole surface of their skin absorbs oxygen, it passes through, and enters their blood. Carbon dioxide passes through, toward the outside.

Moisture Worms wiggle and move by squeezing muscles around their bodies. Their bodies are filled with water (even more than ours)! They also need water to breathe through their skin. (Did you know that worms can live in the bottom of a fish tank, if the fish don't get to them? There's plenty of air in the water in a fish tank, for the worms and the fish to breathe.)

Bedding's Not Just For People

Beds Redworms don't sleep in beds, but we set up a worm bin with lots of bedding in it for redworms to live in. Oh — they'll eat it, too!

Good Beddings:

- white paper
- newspaper (not glossy pages)
- cardboard
- brown leaves
- straw
- coconut husk fiber (coir)

Shred all paper and cardboard into small pieces before using.

Mixing types of beddings is great. Make it damp, but not dripping wet, then add it to the bin. (Make it feel like a wrung-out sponge). **Feeding Your New Pets** - Redworms will eat one-quarter to one-half of their weight per day. Do you eat that much? (I hope not! Feed your worms lightly for the first few weeks, as they get used to their new home. Hint: always mix in some good compost or worm compost in a new bin, if you have it — the bin starts decomposing food waste faster that way. Feed your new pets every day, or just a couple of times a week.

Feed worms:

- bread
- spaghetti
- funny-smelling leftovers
- fruit peels and cores
- vegetables
- eggshells
- lots of other foods

Don't feed

- meat

	<ul style="list-style-type: none">• dairy• fatty foods• citrus fruit <p>Chop up your kitchen food scraps for them. It gets eaten faster that way. Question: How many teeth do redworms have?</p> <p>Answer: None, they have to wait for bacteria and fungi to start eating the food first, and soften it for them.)</p> <p>Bury Dinner in Their Bed!</p> <p>When you feed your worms, bury the food in somewhere in the bedding, at least 3" deep. Don't worry, the worms will find it. Change feeding spots each time you feed. After a month or so, it's good to add more bedding, once a week or so. Best Temperature & OK Temperatures A worm bin will eat up the most food waste when the bedding is 70° F-80° F. All the bacteria are happy, and worms are most comfortable. Down at 45° F, the bin slows down, and at 30° worms can freeze. Who Else Lives in the Worm Bin? There's lots of other critters living in a worm bin. Here's the short list:</p> <ul style="list-style-type: none">• bacteria• fungi• protozoa• microarthropods• Springtails• Sow bugs• Fruit flies• Pseudoscorpions• mites <p>All Critters are Good, & Only Live in the Bin!</p> <p>All these critters work hard at decomposing what you feed your worm bin (the ecosystem). Conditions are good for them there — you kept it warm and their only interest is in decaying organic matter — they won't bother your house or garden plants.</p> <p>Keeping Worms the Easy Way</p> <p>Now and then it helps to check for and remove excess moisture that may collect in the bottom of your bin (particularly common in plastic bins). Standing liquid may promote the growth of anaerobes, whose by-products stink and are not good for plants. Wooden bins "breathe" and will tend to experience more drying than plastic bins, particularly in dryer climates, and so may require occasional rewetting. "Stink" in a worm bin is a sign that too little oxygen is reaching part or all of the worm bin system. If you find an area that stinks, where food waste and/or bedding are very wet or compacted, you'll want to mix in more dry bedding and reduce your feeding in the future.</p> <p>Harvesting the Gold</p> <p>After operating your bin for three to five months (or even more if you prefer dark, very finished-looking vermicompost), it's time to harvest your bin. Dump out the contents onto a plastic-covered table in daylight or under a bright lamp and form many small piles of material. The worms will dive down, and in a few</p>	
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				minutes you can remove a small amount of vermicompost free of worms. Ten minutes later, the worms in each pile will have gone down again and you can continue to remove the vermicompost. When you're finished, re-bed the worms and you're done! The vermicompost you harvest can be used directly in your garden or on your houseplants. It's an excellent fertilizer that you can use sparingly. Because it comes from an earthworm, however, it will not burn plants if you use more. Mixing it with coir (coconut husk fiber), topsoil, compost and vermiculite or perlite in equal amounts creates a good potting soil.	
Nectar and crumbs make an awesome meal for ants.					
21 Nov 11:15	5	Activities : Juice and biscuits		Juice and biscuit break	Parent
From high in the air, we all look like bugs					
21 Nov 11:20	30	Activities : Bugs in the house	Paper	Draw a map of your house. Pretend you are a bird flying over your house. Draw a picture of what it looks like and then mark where the bugs are living in your house.	Akela
Are you afraid to touch bugs? You need to find your way around this game by feel					
21 Nov 11:50	10	Game : Bug feely		Feel in the bucket and tell us what bugs you can identify.	Raksha
Spiders have eight legs.					
21 Nov 12:00	15	Game : Spider's knots		Eight way tug of war. Cubs first need to tie eight ropes together and then play tug-of-war	Mang
Busy bugs need to take care of their worms at home					
21 Nov 12:15	5	Activities : Closing	Totem, Skin Badges, certificates	Announcements Badge handouts Grand Howl Flag Down Prayer Dismiss	Akela