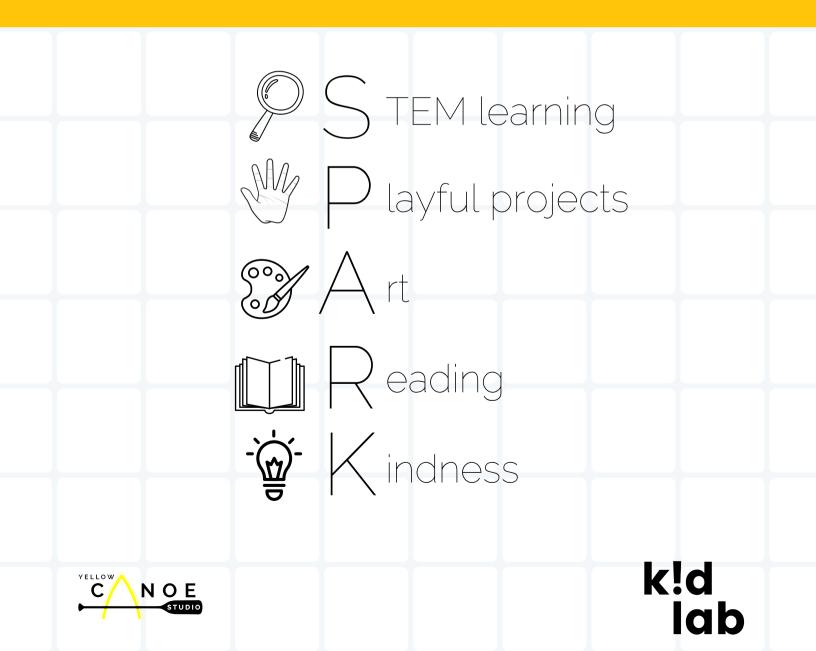


## minibeasts





A free project-based curriculum incorporating 5 things we're passionate about: STEM, Playful projects, Art, Reading, and acts of Kindness



## minibeasts BEES



Watch the video Bees, Pollination and a DIY Bee House



Create a Mason Bee House



Use bubble wrap to make honeycomb patterns in playdough or use with ink to make patterns on paper

k!d

lab

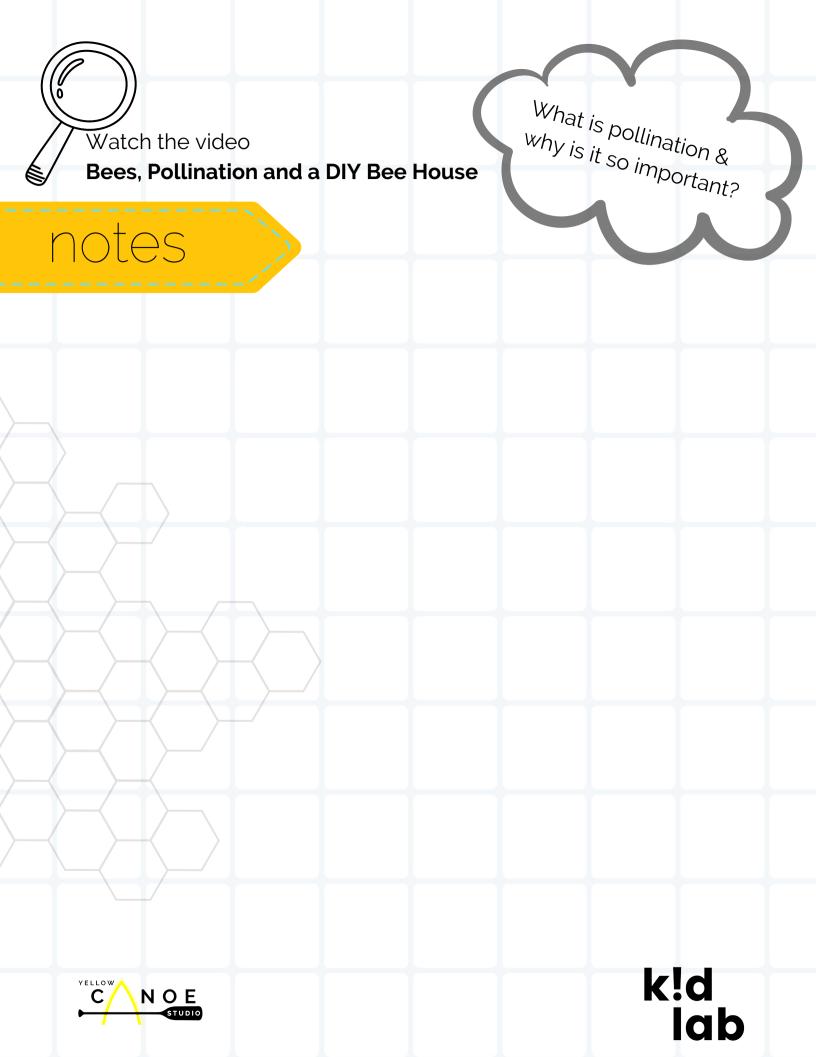


Choose a book about bees to read together



Design a pollinator garden







## mason bee house

## materials

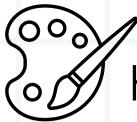
aluminum tin can (empty) twine hollow "filler" materials (like bamboo reeds, newspaper or paper straws) paint (optional)

### directions

Decorate your tin can (optional). Punch a hole in the bottom near the rim's edge to thread twine through, in order to hang the bee house later. Fill the tin can with tightly packed filler materials. Hang the bee house about 5-8 feet above ground and facing east.

k!d





### honeycomb printmaking

## materials

rolling pin (or cup) bubble wrap glue washable paint painting paper

### directions

Glue bubble wrap to the rolling pin (or cup). Spread a thin layer of paint on a paper plate and roll the pin around. Press and roll onto a piece of paper to create a honeycomb pattern.

k!d



# book list

Nature Anatomy or Farm Anatomy by Julia Rothman Bug Hotel by Libby Walden The Hotel for Bugs by Suzy Senior Bertie's Bug Hotel by Virginia Forbes Save the Bees by Bethany Stahl The Backyard Bug Book for Kids by Lauren Davidson The Big Book of Bugs by Yuval Zommer I Am a Bee: A Book About Bees for Kids by Rebecca McDonald The Bee Book by Charlotte Milner **Extraor-bee-nary Extraordinary Facts About Bees** by Seven Puppies Press The Life and Times of the Honeybee by Charles Micucci The Magic School Bus Inside a Beehive by Joanna Cole It Starts with a Bee: Watch a Tiny Bee Bring the World To Bloom by QED and Jennie Webber





## minibeasts IN THE GARDEN



Watch the video Minibeast Superheroes and DIY Garden Worm Tower

k!d

lab



Build a Worm Compost Tower



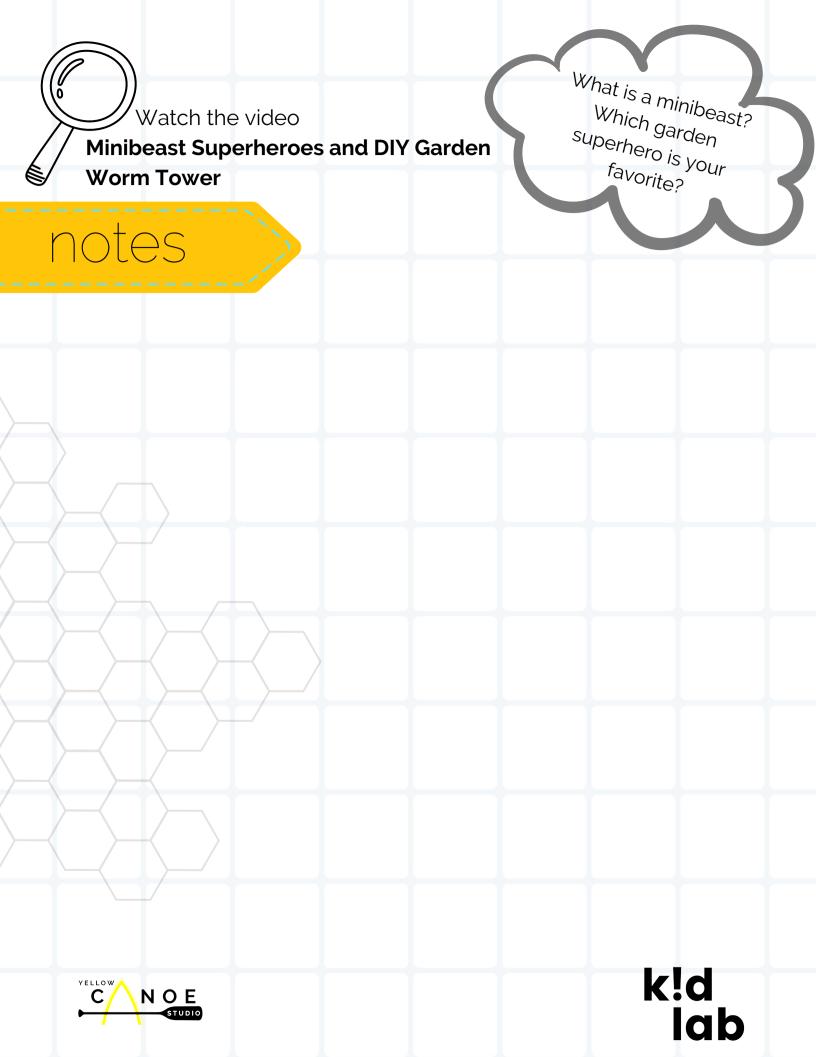
Design a butterfly mobile

Choose a book about pollinators, gardening or composting to read together



Plant a pollinator garden







## worm compost tower

## materials

8' untreated lumber pencil electric drill screws saw measuring tape sandpaper 3/4" or 1" spade bit red wiggler worms scrap newspaper + food scraps

k!d

lab





## worm compost tower (cont.)

## directions

Cut lumber into (4) 20" and (1) 10" segments.

About 2/3 way down on each 20" board, drill holes for worms to move in and out of tower. Use sandpaper to smooth any sharp edges.

Use screws to attach 4 sides together to create the tower.

Dig hole in a desired location, deep enough for holes to be under soil level.

Fill 1/2 full with damp paper scraps, sawdust and/ or small bits of food scraps. Moisten everything with water. Add red wiggler worms.

Place lid on top. Check the tower often and add water, and brown / green scraps every few days to keep your worms happy!

k!d





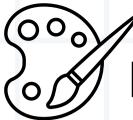
## materials

butterfly mobile template cardboard pencil scissors twine 8" dowel rod (optional) wooden bead (optional) paint or paint sticks



k!d

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## butterfly mobile (cont.)

#### directions

Cut out the template. Trace onto cardboard and mark where holes will go.

Color the butterfly.

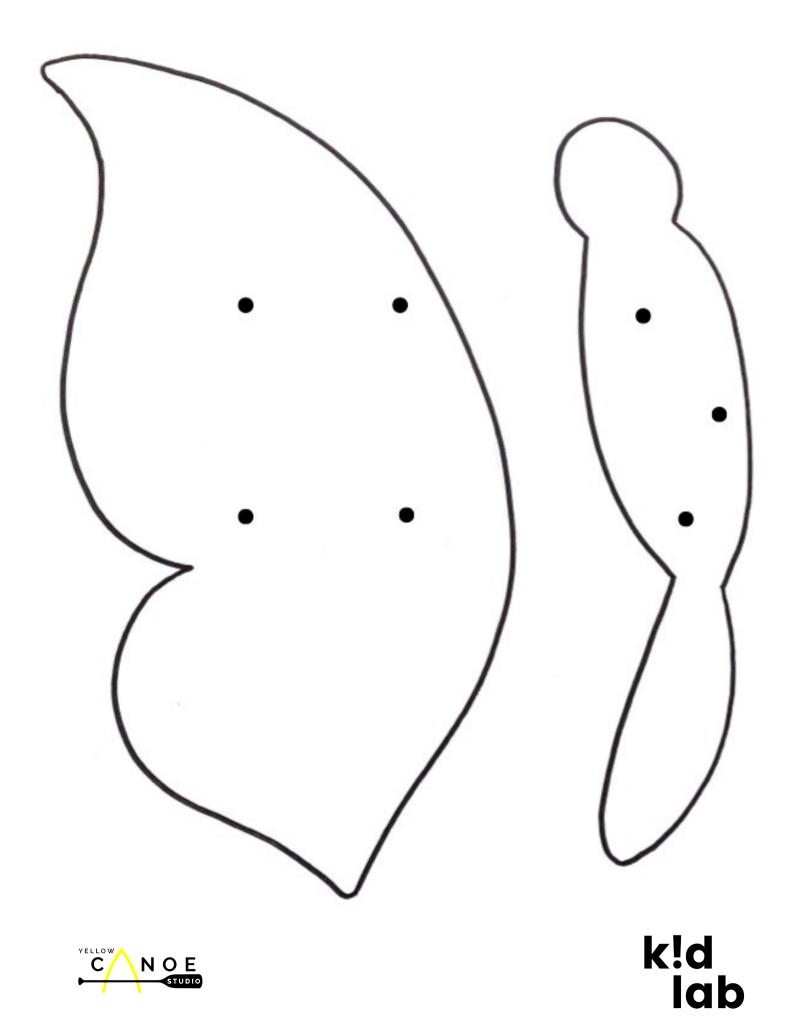
Using an awl or hole punch, punch holes where indicated.

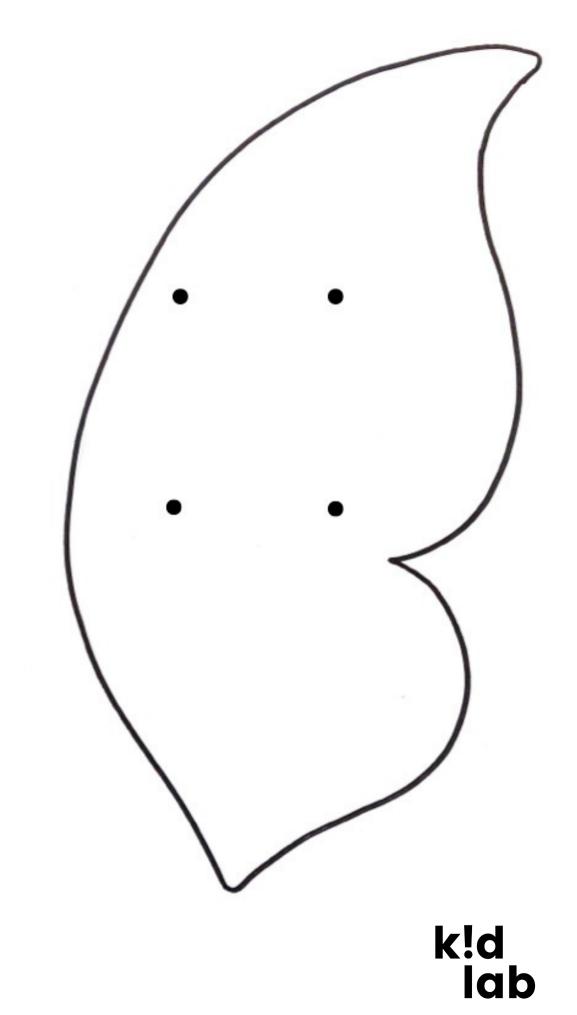
Using twine, attach middle section to both wings. Thread 2 additional pieces through wings, bringing them together at the top. Attach to a small dowel (optional) to give additional stability and a way to hang the piece as a mobile.

Add small segment of twine at bottom of the middle segment. This acts as a pulley to activate the mobile. Add a wooden bead to bottom (optional).

k!d









# book list

Compost Stew by Mary McKenna Siddals Up in the Garden and Down in the Dirt by Kate Messner Wiggling Worms at Work by Wendy Prefer Composting: Nature's Recyclers by Robin Koontz What's Sprouting in My Trash by Esther Porter One Small Square: Backyard by Donald M Silver Miss Rumphius by Barbara Cooney The Gardener by Sarah Stewart A Seed is Sleepy by Dianna Aston A Butterfly is Patient by Dianna Aston Shine a Light: Secrets of the Vegetable Garden by Carron Brown

k!d

Idh





## minibeasts SPIDERS



Watch the video Spiders, Webs and DIY Geoboard





Paper plate weaving



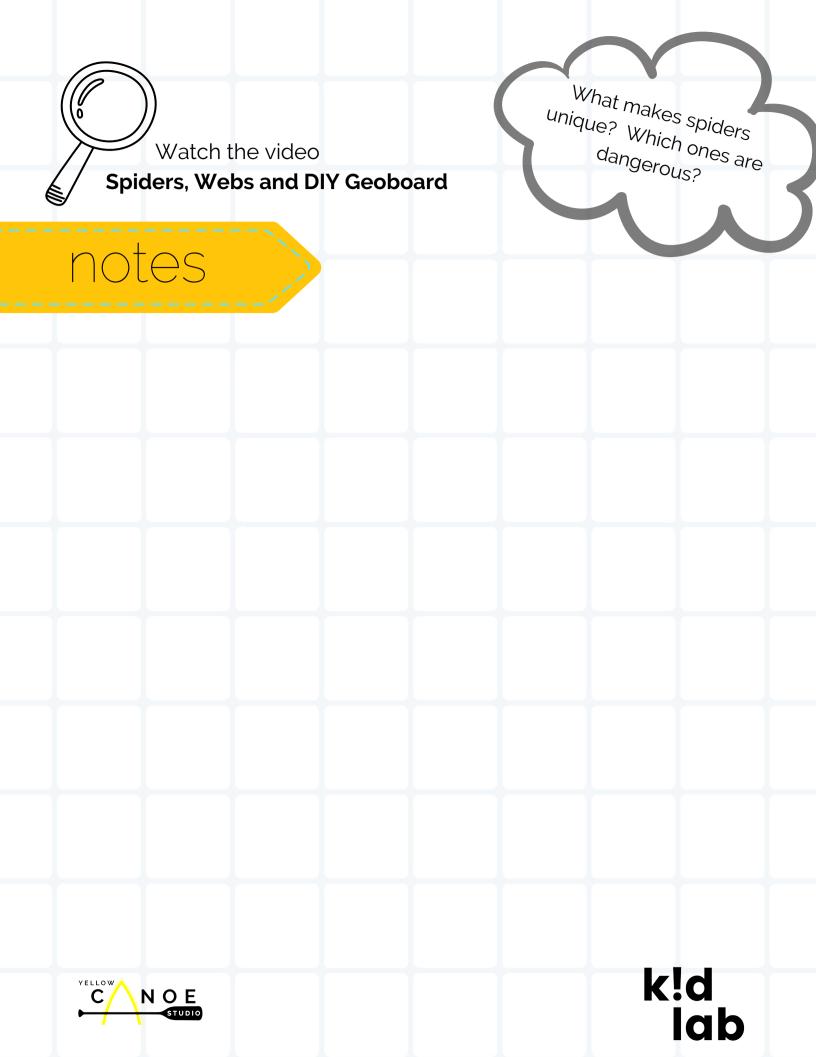
Choose a book about spiders to read together

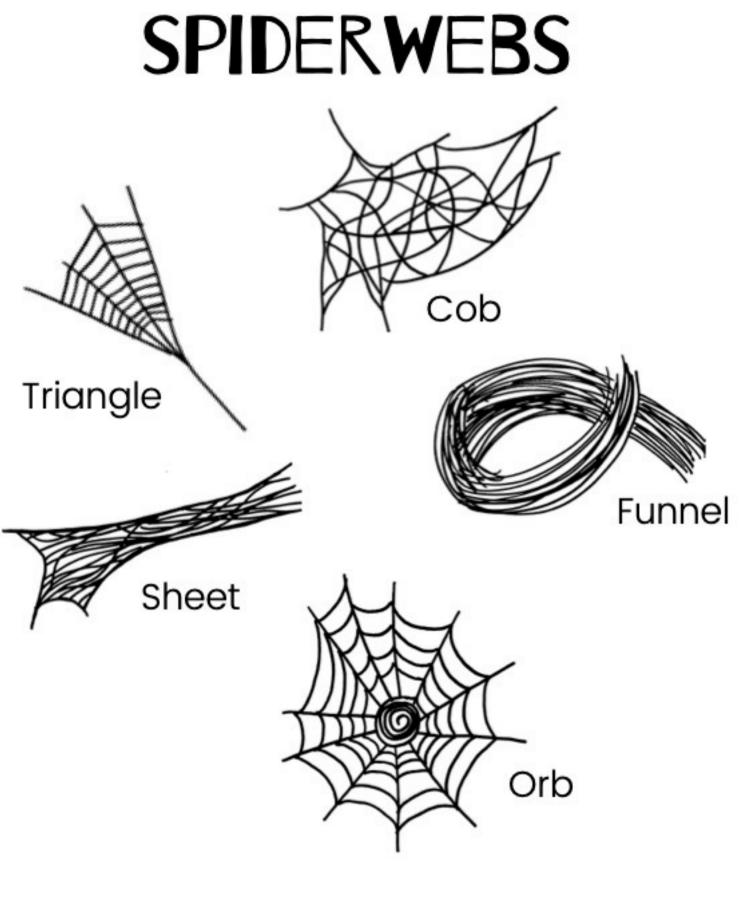


Write a letter to someone in your 'web' of friends











## geoboard

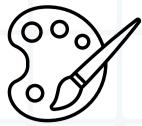
## materials

scrap wood ruler nails hammer pencil rubber bands

### directions

Measure and mark your board in 1" intervals. Hammer nails at each designated mark. Use rubber bands to create designs.

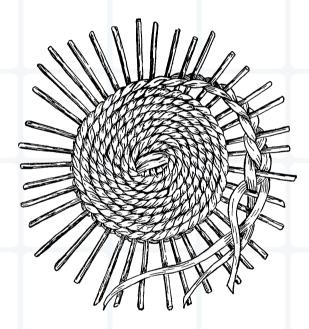




## paper plate weaving

## materials

sturdy paper plate pencil ruler (optional) scissors colored pencils yarn tape









## paper plate weaving (cont.)

## directions

Measure and mark 11 equidistant marks around the outer edge of the plate.

Cut slits. Tape one end of yarn to backside of plate. Then stretch to front side and put it through slit on opposite side. Continue until all sides are complete. This is the warp.

Now weave yarn under and over the warp to create the weft.

k!d

lab



# book list

Big Book of Bugs by Yuval Zommer Our Amazing World: Spiders by Kay de Silva Spiders by Gail Gibbons The Very Busy Spider by Eric Carle Bugs: A Stunning Pop-up Look At Insects, Spiders and Other Creepy Crawlies by George McGavin I'm Trying to Love Spiders by Bethany Barton Are You A Spider by Judy Allen Spiders and Their Webs by Darlene A Murawski Walter's Wonderful Web by Tim Hopgood

k!d





## minibeasts BEETLES



Watch the video **Beetle Buddies + Build A Bug Project** 







Choose a book about beetles to read together



Raise ladybugs and release in your garden



k!d

lab







## build a beetle

## materials

nature finds (leaves, seed pods, bark, etc) white paper or cardboard shadow box frame

glue

### directions

Collect an assortment of natural items. Assemble together to create beetles or bug shapes as you'd like. Use glue to tack pieces into place.

k!d





#### materials

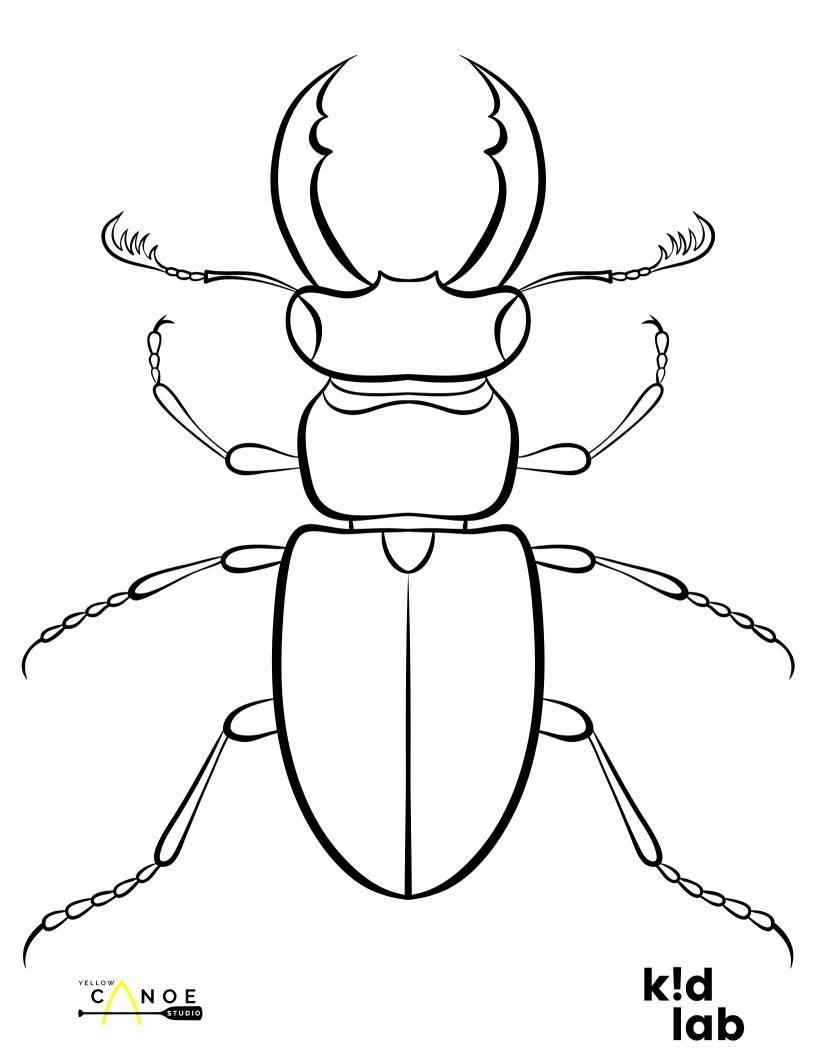
assorted patterned papers beetle template scissors glue

## directions

Print beetle template. Cut assorted papers to fit inside main segments of the beetle on the template. Glue pieces into place.







# book list

Natural World by AJ Wood A Beetle is Shy by Dianna Aston The Grouchy Ladybug by Eric Carle The Very Lonely Firefly by Eric Carle The Very Clumsy Click Beetle by Eric Carle Ladybugs by Gail Gibbons Are you a Ladybug by Deborah J Short Sam and the Firefly by PD Eastman Firefly Home by Jane Clarke Fireflies Light the Night by Miranda Rose Wommer







# raise ladybugs (and release in your garden)\*

#### notes

\*Live beetles and larvae kits are available for purchase online (we recommend Insect Lore or Amazon). Follow instructions carefully to ensure your ladybugs remain healthy and release in your garden to keep aphids at bay.

