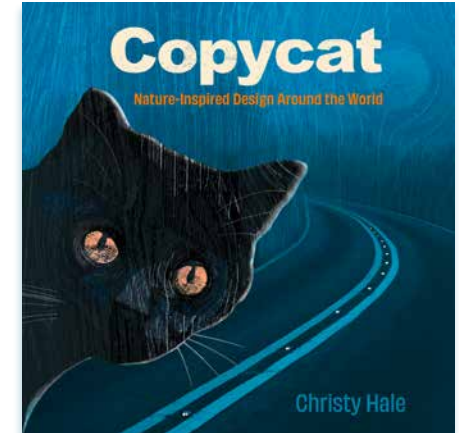


Biomimicry Center

REPRODUCIBLE

1. Read *Copycat: Nature-Inspired Design Around the World*.
2. Offer these easy-prep activities for small groups of students to rotate through and explore different ideas about biomimicry. Each activity can also be used as a whole-class experience.
3. Included in this packet:
 - Printable choice board showing each activity with a picture cue
 - Printable for each activity shown below



Lee & Low Books
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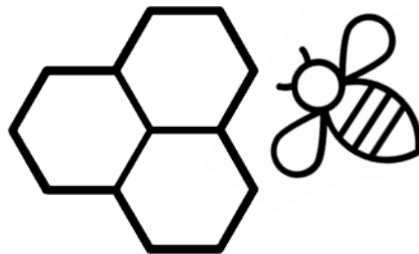
Biomimicry Matching

Printable squares to cut and glue matching pairs



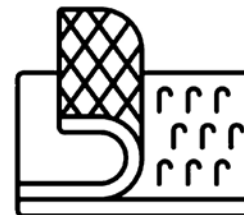
Shapes in Nature

Use pattern blocks to explore how shapes can best fill a space on a printable activity sheet.



Object Observation

Student sheet to write and draw about how an invention looks, feels, and works, and how it is similar to its inspiration from nature



Building Challenge Cards

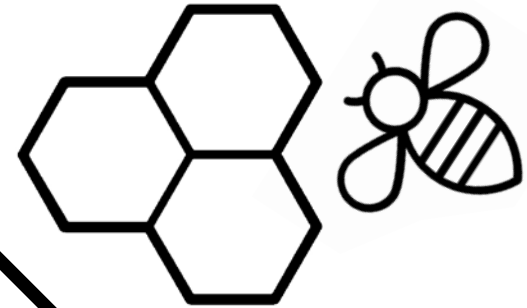
Cards to print and cut with simple prompts to be used with blocks or other building tools



**Biomimicry
Matching**



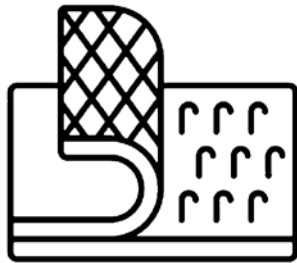
**Shapes
in Nature**



CHOICE

BIOMIMICRY

BOARD



**Object
Observation**

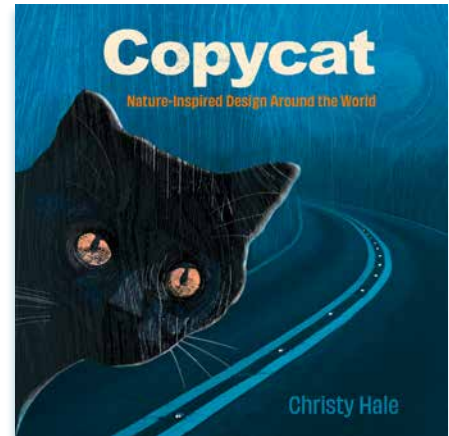


**Building
Challenge Cards**

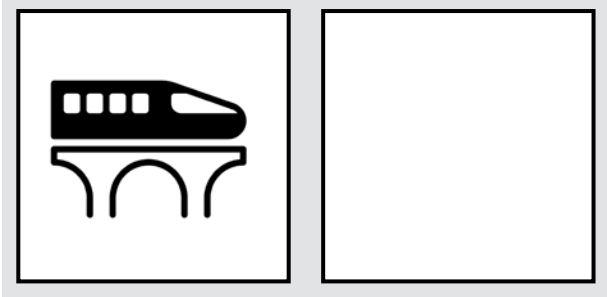
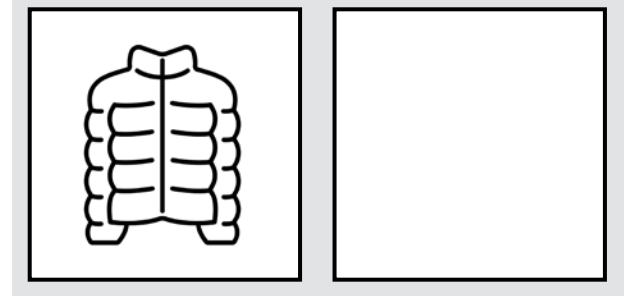
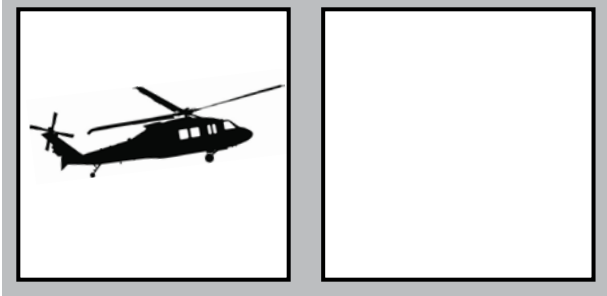
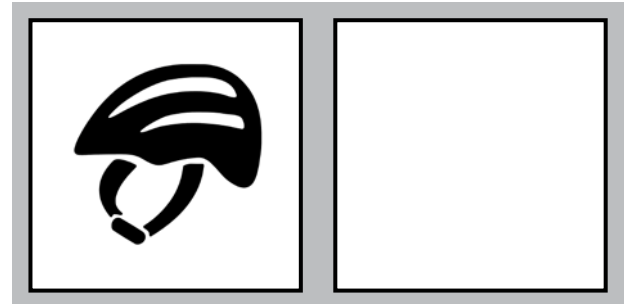
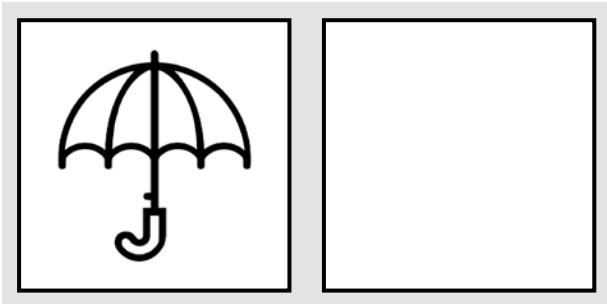
Biomimicry Matching

REPRODUCIBLE

1. Read *Copycat: Nature-Inspired Design Around the World*. Think about the nature items in the book and the inventions they inspired.
2. Look at the printed squares of inventions. Find the nature item that inspired the invention. Cut and paste to create matching pairs.
3. Create your own invention inspired by nature. Use the blank squares to draw your ideas.



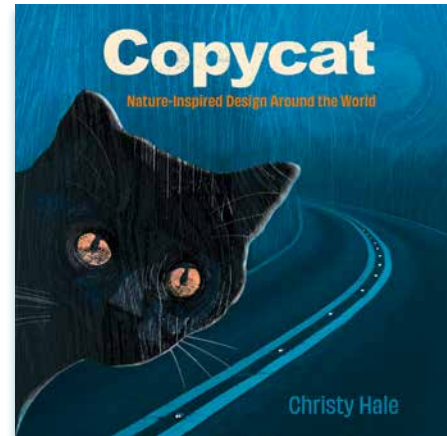
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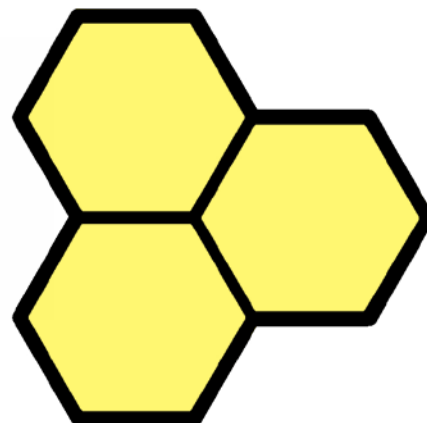
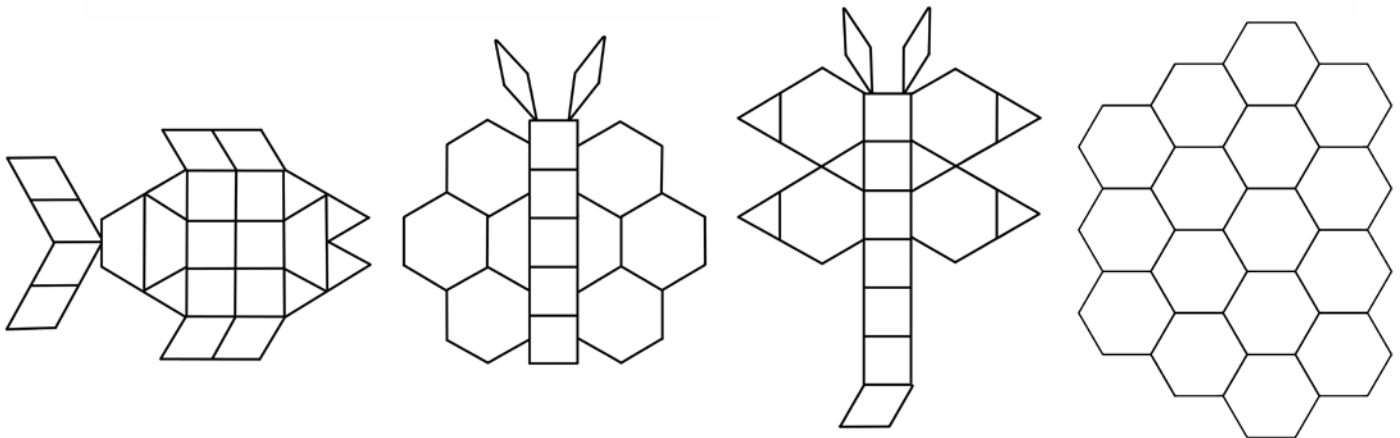
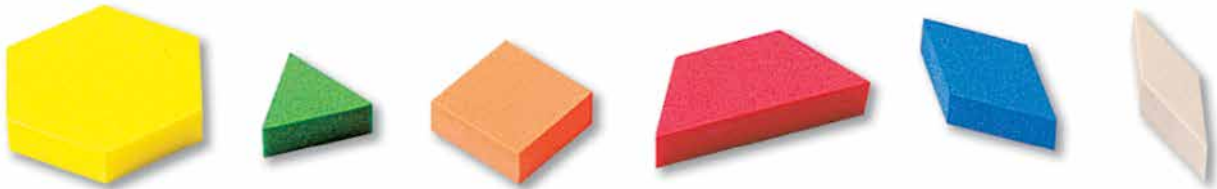
Shapes in Nature

REPRODUCIBLE

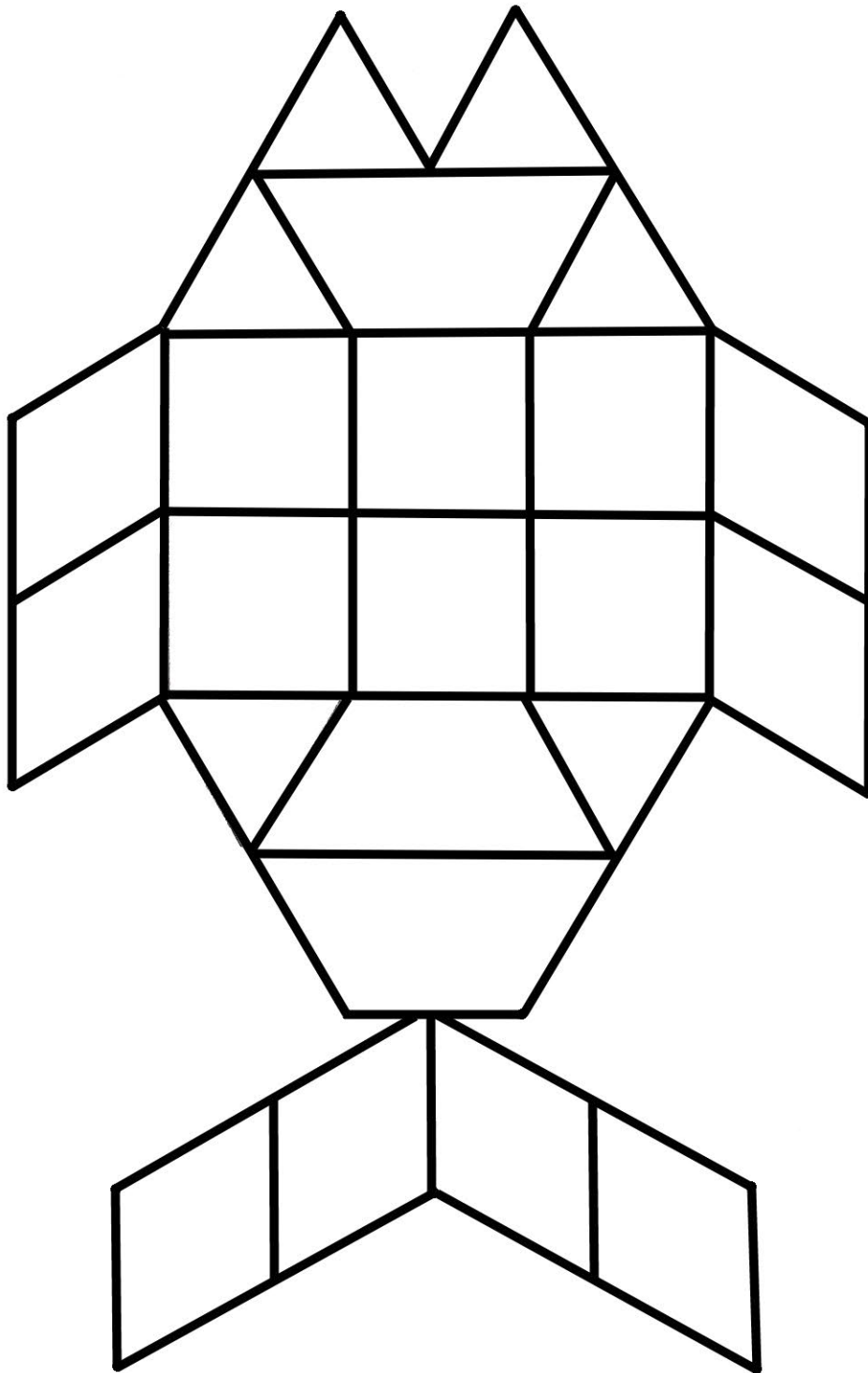
1. Read *Copycat: Nature-Inspired Design Around the World*. Notice the housing project that was inspired by the shape of honeycomb bee cells.
2. Explore how shapes can combine to create things from nature. Use pattern blocks to fill the spaces on the following printable activity sheets.
3. Create your own honeycomb using hexagon pattern blocks. On a piece of paper, draw and color some bees, cut them out, and add them to your hive!



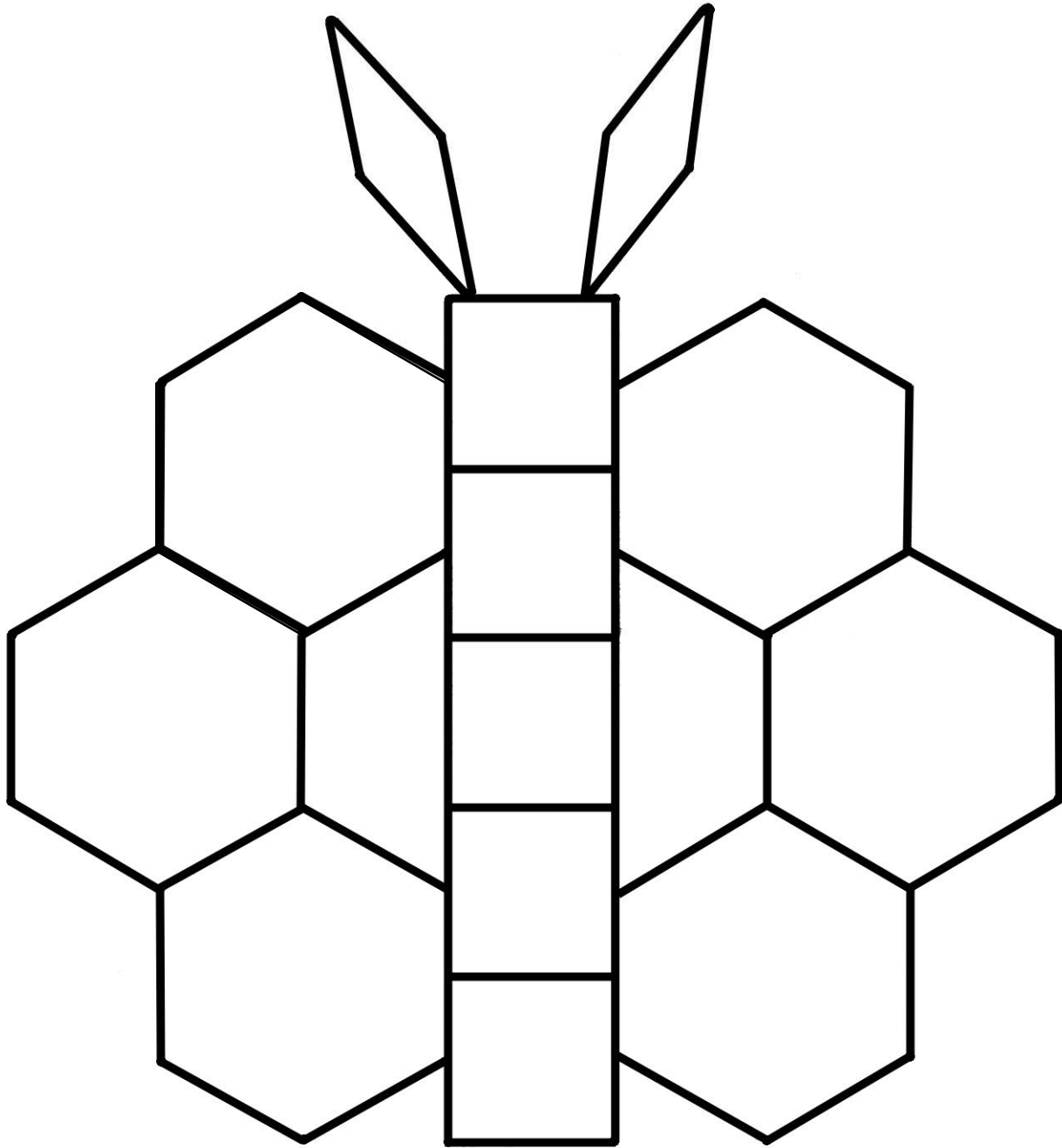
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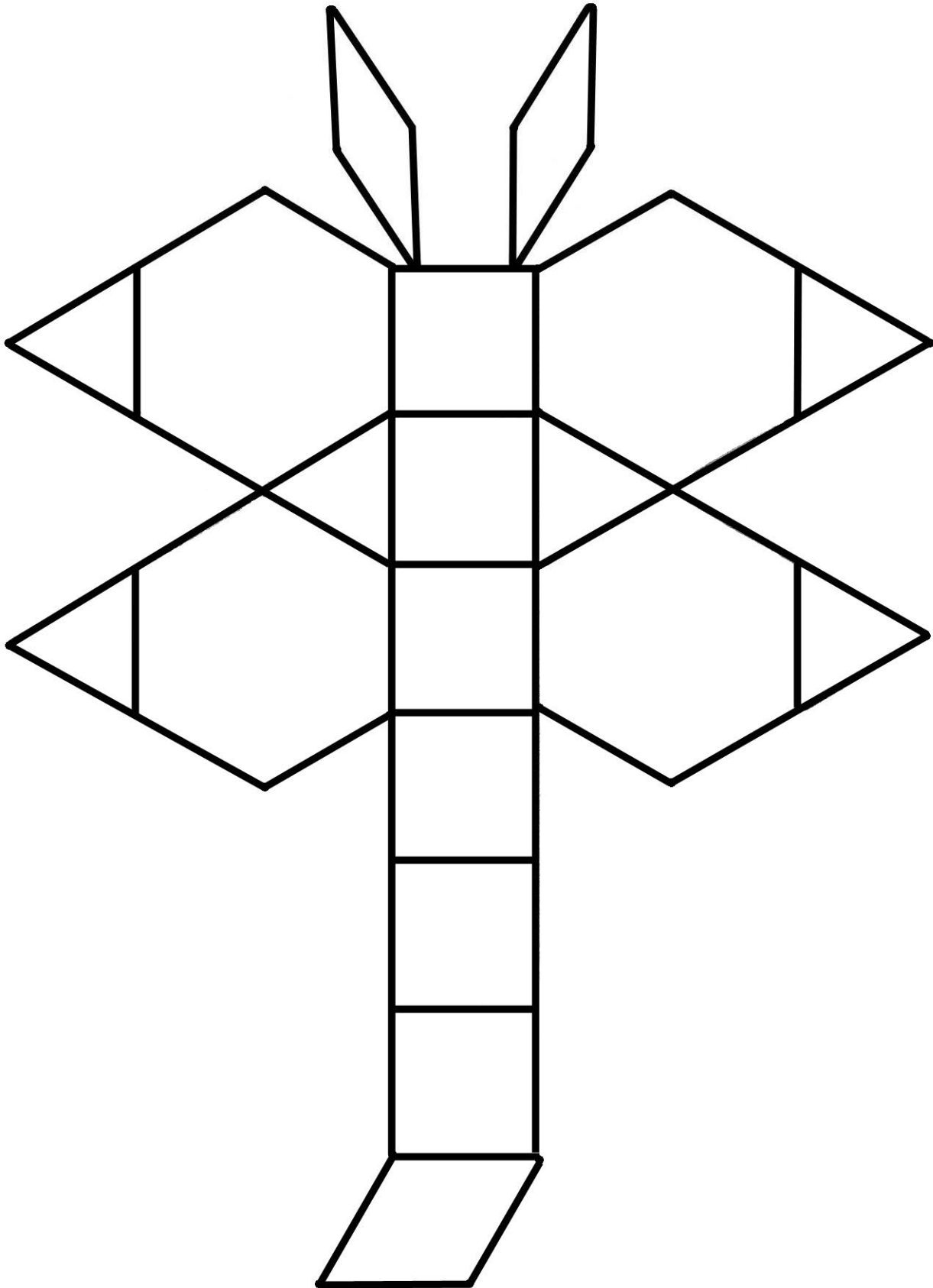
Shapes in Nature—fish



Shapes in Nature—butterfly

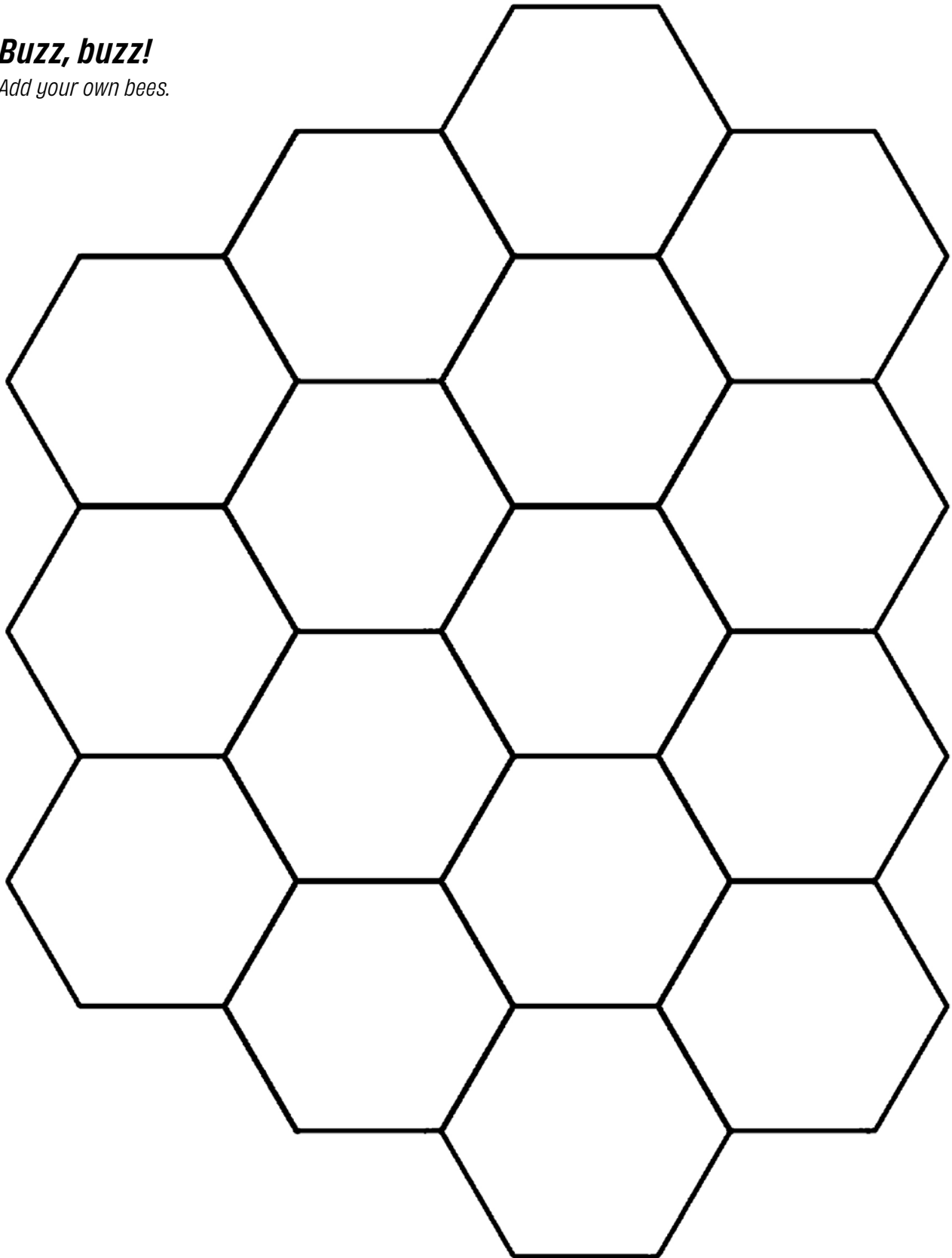


Shapes in Nature—dragonfly



Shapes in Nature—honeycomb

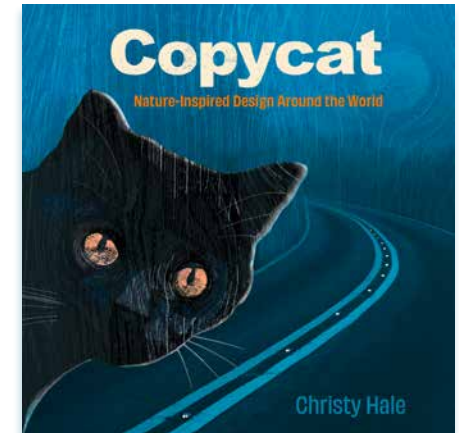
Buzz, buzz!
Add your own bees.



Object Observation

REPRODUCIBLE

1. Read *Copycat: Nature-Inspired Design Around the World*.
2. Study an invention (Velcro™, an umbrella, a road reflector).
How does it look?
How does it feel?
How does it work?
How is it similar to its inspiration from nature?
3. Fill out the observation chart.



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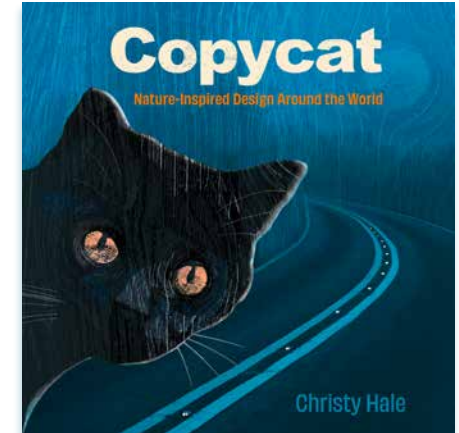
Object Observation Chart

Name of object or invention	How does it look?	How does it feel?	How does it work?	How is it similar to its inspiration from nature?

Biomimicry Building Challenge Cards

REPRODUCIBLE

1. Read *Copycat: Nature-Inspired Design Around the World*.
2. Cut out the Biomimicry Building Challenge Cards and distribute them.
3. Use available classroom materials and supplement with recyclables.
4. Invite students to discuss their inspiration from nature and to share their inventions.



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Biomimicry	Biomimicry	Biomimicry	Biomimicry
<p>What animals have hard shells?</p> <p>Use your ideas to build a structure to protect a soft object from being squished. (e.g., pom-pom or ball)</p>	<p>What objects in nature fly?</p> <p>Think about different animals and insects and how their bodies are constructed. Use your ideas to create something that flies (e.g. toy paper helicopters, making straw airplanes)</p>	<p>What objects in nature have sticky features to help them get around?</p> <p>Use your ideas to make something stick to the wall. Use materials found in your classroom.</p>	<p>What animals or objects in nature use claws or arms to grab things?</p> <p>Use ideas to make something that can grab something from far away, that extends beyond your arm's reach.</p>
Building Challenge	Building Challenge	Building Challenge	Building Challenge