

ANIMAL SUPERPOWER

ANIMAL SUPERPOWER REPORT

Scary, Unique & Creepy



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What is Included

1. Teacher Guide
2. Cover - Animal Superpower Report - color and black-and-white
3. Helmeted Hornbill Report - color and black-and-white
4. Unique Features
5. Helmeted Hornbills vs Cassowaries - Venn Diagram
6. Biological Strategies Cards - color and black-and-white
7. Story writing prompts
8. Mind maps - inventions inspired by Helmeted Hornbills
9. Story writing prompt - Innovation
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11. My Drawing - a gallery of hornbills
12. Large Helmeted Hornbills - make a poster with superpowers
12. Small Helmeted Hornbills - make a poster



Helmeted Hornbill

Do your students love animals that look a bit scary? Then, let them discover the helmeted hornbill. This spectacular bird is found only in the rainforests of Brunei, Indonesia, Malaysia, Myanmar, and southern Thailand. Imagine a bird with long eyelashes, which are feathers, making it look like it comes straight out of a fairytale. Now add a bright yellow beak and a dramatic-looking trailing tail that's a sight to behold when it's in flight. The beak is cosmetically stained with yellow from preen oil.

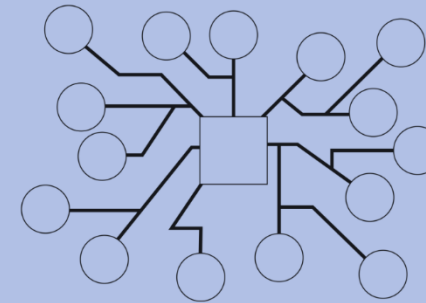
These spectacular birds have a casque, horny helmet above the beak. The helmet is made of keratin, a fibrous protein, and it is heavy, up to 11% of a bird's weight. The casque is like a softer version of elephant's ivory. Poachers kill the birds to sell the casques for making beads, pendants and art, which have contributed to making the birds critically endangered. The role of the casque is unclear, but it plays an imprint role in aerial jousting, where birds (typically males) collide casques at high speeds in a mid-flight display.

Their diet mainly consists of fruits, but they are omnivorous and eat insects, small animals and even reptiles. Figs are one of their favorite foods. They help spread seeds, making them essential for keeping the rainforest healthy, and diverse. Helmeted hornbills use a variety of calls for communication, from deep booms to high-pitched whistles. One theory is that the casque acts as a vibrating chamber to amplify the calls. The male call is a series of deep hoots that build up in intensity. The female sometimes joins in with a higher-pitched note.

They are used as an inspiration for the design of collision-

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MY HELMETED HORNBILL INSPIRED IDEA



What do you want your thing to do?

Give your invention a cool name.

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GREAT TO USE FOR

- ❖ Animal Projects
- ❖ Bird Units
- ❖ Design Projects
- ❖ Centers
- ❖ Independent Work
- ❖ Creativity Challenge

HELMETED HORNBILL VS VULTURES



Look at the differences and similarities between Helmeted Hornbills and Cassowaries.

Helmeted Hornbill

Cassowaries

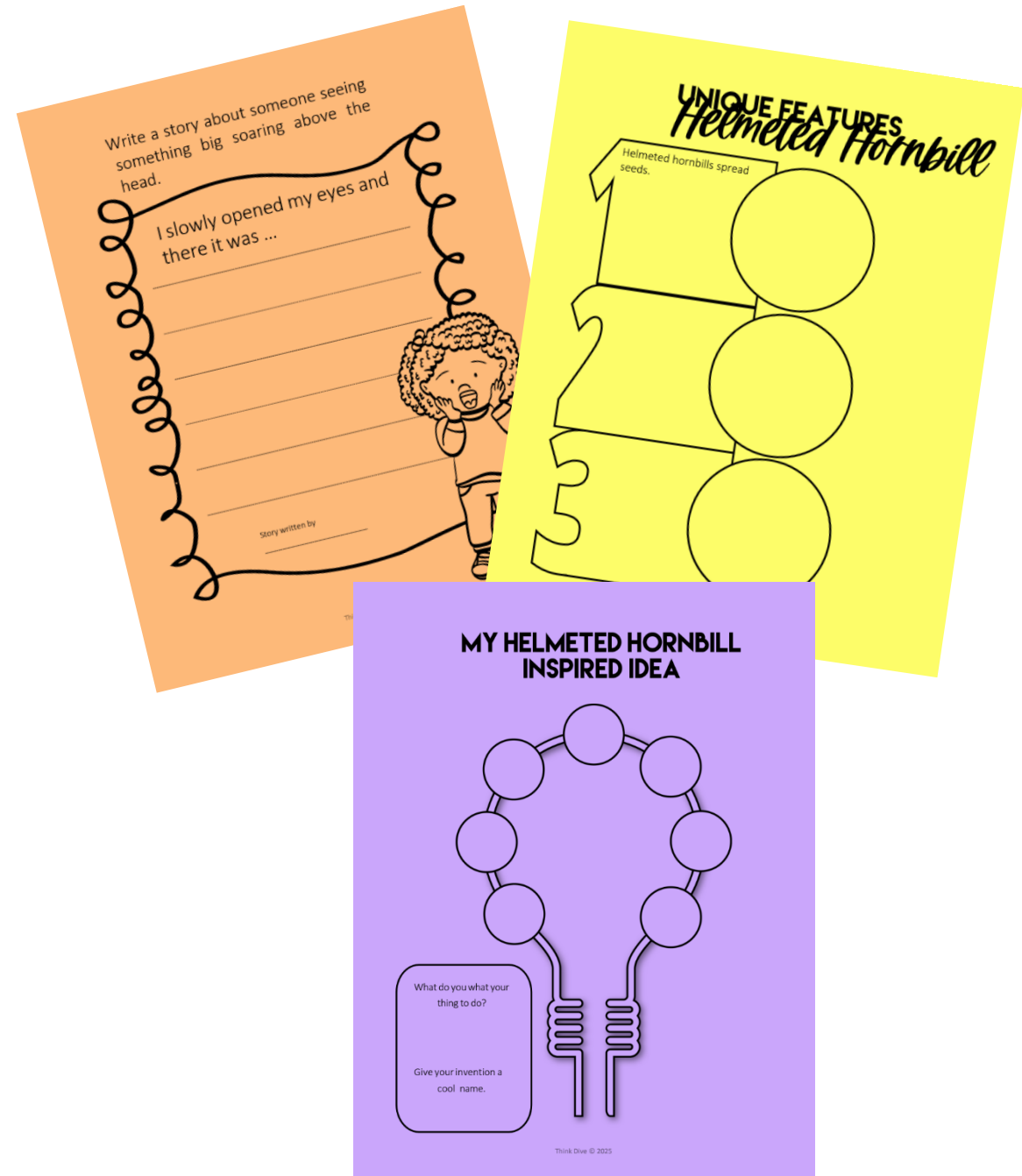


Helmeted hornbills are

REVIEW — MATH JOURNAL PROMPTS

“A wonderful set of problems to get students thinking; and I love the extra challenge provided by showing their work to explain how they arrived at the solution. Thank you for the great prompts!”

“I sent this booklet home for parents to help one of my students. It was easy to put it together. Thank you!”



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