## **Whose Eyes?**

LOCATION:Depending on what village you’re in and what areas are available, this can be done in any area that can hold the whole group. There is a PowerPoint for this activity, so if possible, find a place with a projector and screen.

MATERIALS:All materials should be in the EJ Rainy Day bin in the cabinet room (except USB): USB drive w/ PowerPoint, half-sheet answer sheets and pencils for each team

SET UP:Gather students in front so that they can see the screen. Go through the slides, following the directions below for each of them.

Each trail group will choose one person to fill out their sheet. As the camp staff goes through each slide and talks about each eye, the group will discuss which eye goes with which animal and write down a name from the list. Explain to the students that some animals won’t be used, and that there is one description of an eye that is fake. Once you have described all the eyes, ask if any group needs a description to be repeated. Once everyone is ready, read each of the descriptions again, one at a time. Have students call out their answer and then reveal the correct answer, using the PowerPoint slides along the way. The descriptions and answers are listed below.

1. My night vision isn’t great. However, in the daylight, I can see clearly about 8x as far as a human, allowing me to spot and focus in on an animal 2 miles away. (**EAGLE)**
2. My tube-shaped eyes contain more rods than human eyes, which gives me superior night vision. Although my eyes don’t move, I can turn my head nearly all the way around, giving me a 270-degree range of vision. **(OWL)**
3. I basically have the most complex eyes of any animal in the animal kingdom. While humans have three types of cones in their eyes, allowing them to see colors red to violet, I have sixteen, so I see colors you couldn’t even dream of! **(MANTIS SHRIMP)**
4. Once humans are about 3 months old, their eyes will stay the same size for the rest of their lives (they’re the only human organ that doesn’t grow). But my eyes start small when I’m a baby and grow as I get older. **(FAKE)**
5. Humans have eyes that look in the same direction. But I am able to move my eyes independently of one another and in a full 360 degrees. This means that I am able to see two different things at one time! **(CHAMELEON)**
6. I have the largest eyeball on earth. It’s nearly 11 inches across (about the size of a soccer ball)! I also have organs in my eyes called photophores that produce light (kind of like headlights) so that I can see in the dark. **(SQUID)**
7. I am almost impossible to sneak up on. My large, rectangular pupils allow me to have full panoramic vision on each side of my head—unlike human pupils, which are boring and round. **(GOAT)**
8. My eyes are each as big as my brain, but it’s only because I can’t see at night. They need to be as big as possible so they can let in any light that is available and avoid predators. **(TARSIER MONKEY)**
9. My two eyes are at the top of stalks that stick out of my head, so I can’t move them. They don’t see much detail, but they let me see enough light and dark spots to know if I need to crawl away and hide! **(CRAB)**
10. My eyes have a layer of light-reflecting crystals behind my retinas. When it’s sunny out, they act like sunglasses to block some of the light. At night though, they change to let me see in the dark. **(CROCODILE)**
11. When humans’ eyes are exposed to bright light, your pupils shrink into small circles. But my pupils form a W shape when that happens to me! **(CUTTLEFISH)**
12. Humans have 3 types of cones that let them see combinations of red, blue, and green. But I have way more in my compound eyes, so I can see all kinds of colors, including ultraviolet. **(DRAGONFLY)**