



Animal Eyes



**Fill in the answers to the following.
You may have to do a bit of research.**

1. Some animals have eyes close together on the front of their face.
This type of vision works well for **(circle one)** **predators** **prey animals**
2. Some animals have eyes far apart on the sides of their face.
This type of vision works well for **(circle one)** **predators** **prey animals**
3. What are the color-sensitive cells in your eyes called? _____
4. How many types of these cells do humans have? _____
5. What are the light sensitive cells called that aren't sensitive to color? _____
6. Do owls have more rods cells or more cone cells? _____
7. What kinds of animals see well at night? _____
8. Name some characteristics of eyes that see well at night. _____

9. What is a tapetum lucidum and what does it do to light? _____

10. What kind of eyes does a mosquito have? _____
11. Each of the "miniature eyes" of a mosquito are called: _____
12. Does a mosquito see one picture or many separate pictures? _____
13. How do aquatic animals maintain the shape of their eyes underwater? _____

14. Fish eyes are most sensitive to which color of light **(circle one)** **red** **blue** **yellow**
15. What has 100 eyes and lives on the bottom of the ocean? _____
16. What animal(s) have eyes that can see both above and below water at the same time? _____

17. What animal(s) can see a 360 degree view and what allows them to do this? _____



Animal Eyes Answer Key

1. Some animals have eyes close together on the front of their face.
This type of vision works well for **(circle one)** **predators** **prey animals**

2. Some animals have eyes far apart on the sides of their face.
This type of vision works well for **(circle one)** **predators** **prey animals**

3. What are the color-sensitive cells in your eyes called? _____ **cones**
4. How many types of these cells do humans have? **3 (to absorb red, blue, and yellow photons)**
5. What are the light sensitive cells called that aren't sensitive to color? _____ **rods**
6. Do owls have more rods cells or more cone cells? _____ **rods**
7. What kinds of animals see well at night? _____ **answers will vary**
8. Name some characteristics of eyes that see well at night. _____
large pupil, big eyes, lots of rods, some have tapetum lucidum
9. What is a tapetum lucidum and what does it do to light? _____
tapetum lucidum is a layer at the back of the eye that reflects light
10. What kind of eyes does a mosquito have? _____ **compound**
11. Each of the "miniature eyes" of a mosquito are called: _____ **ommatidia**
12. Does a mosquito see one picture or many separate pictures? _____ **one picture**
13. How do aquatic animals maintain the shape of their eyes underwater? _____
By absorbing water through the cornea
14. Fish eyes are most sensitive to which color of light **(circle one)** **red** **blue** **yellow**
15. What has 100 eyes and lives on the bottom of the ocean? _____ **Scallop**
16. What animal(s) have eyes that can see both above and below water at the same time? _____
four eyed fish (Anableps)
17. What animal(s) can see a 360 degree view and what allows them to do this? _____
crayfish, crab, and other animals with eyes on stalks