



# Heat Vision

We are going to learn about some animals' strong sense of heat vision.





**Warm-up**

**2**

min



Are you afraid of snakes?



What interesting things do you know about snakes?





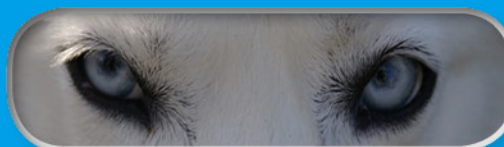
## Reading 4 min

**Read with the teacher and then answer the question below.**

Recent **scientific** investigations have shown that some animals, such as dolphins and chimpanzees, see the world as we do. However, there are many animals that see the world in a **different** way.



**What we see**



**What dogs see**



Have you heard or read about how other animals see the world?

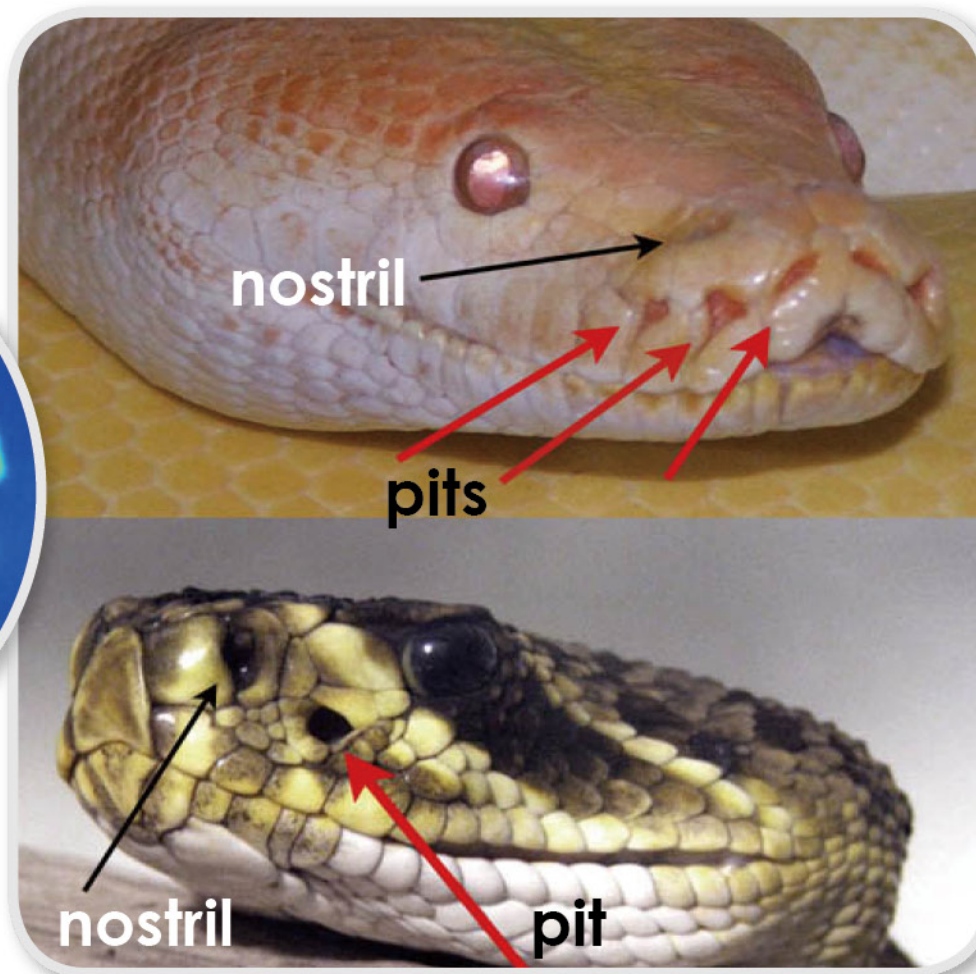
**To be continued... >>**



## Reading 3 min

**Read with the teacher and then answer the questions below.**

Besides their normal eyes, snakes also have pits that **detect** heat from the bodies of living creatures, just like an **infrared** sensor. People also call this ability “heat vision”. Snakes use their heat vision to detect prey at night.



Can you tell what is in the picture above?  
Why does it have these colors?

To be continued... >>





## Reading 3 min

**Read with the teacher and then answer the questions below.**

Mosquitoes also use heat vision to find the parts of their prey that have plenty of **blood**. First, they use sight and smell to get near their prey; then they use heat vision to find the best body parts to suck blood from.



Have you ever been bitten by a mosquito?  
Do mosquitoes bite you more during daytime or nighttime?

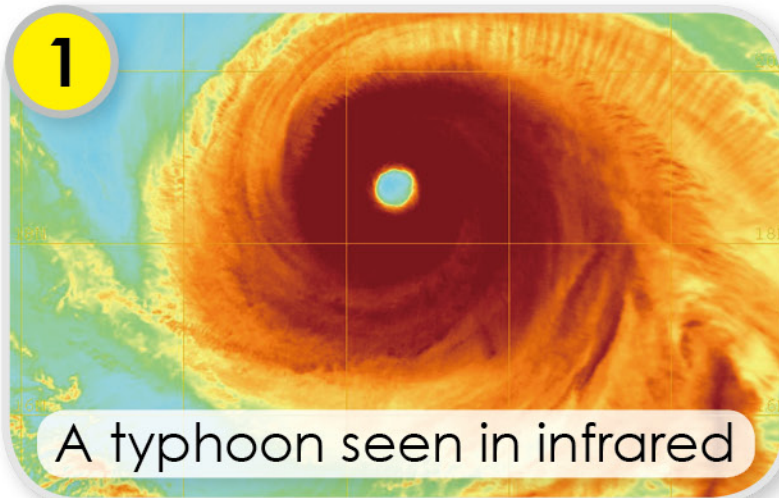
To be continued... >>



## Reading 4 min

**Read with the teacher and then move to the Word Focus.**

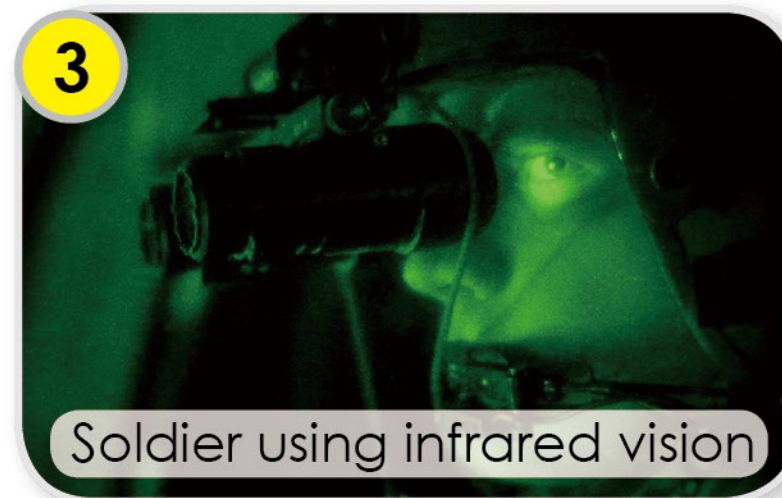
People use infrared **equipment** in many areas, such as meteorology (picture 1), astronomy (picture 2), and military science (picture 3). These infrared devices can help us to detect problems and see things our eyes cannot.



1 A typhoon seen in infrared



2 Infrared Astronomical Satellite



3 Soldier using infrared vision

### Word Focus

- There are many kinds of **equipment** used in studying the sky.
- What kind of **equipment** is in picture 2?

Let's practice. >>



**Task****4**

min

**Use the words from the Word Bank to ask questions that match the given answers.**

Q: What animals use heat vision?

A: Snakes and mosquitoes use heat vision.

Q: \_\_\_\_\_?

A: We can call it heat vision.

Q: \_\_\_\_\_?

A: They use heat vision to find the best body parts to suck blood from.

Q: \_\_\_\_\_?

A: It can help us to detect things our eyes cannot.

**Word Bank**

snake

mosquito

heat

equipment

vision

detect

**More challenges! >>**

**Leadership****4** min**Discuss with the teacher.**

What would you do if your eyes already had infrared vision?  
I would ...

**Word Bank**

daytime  
nighttime  
help  
find  
look  
discover



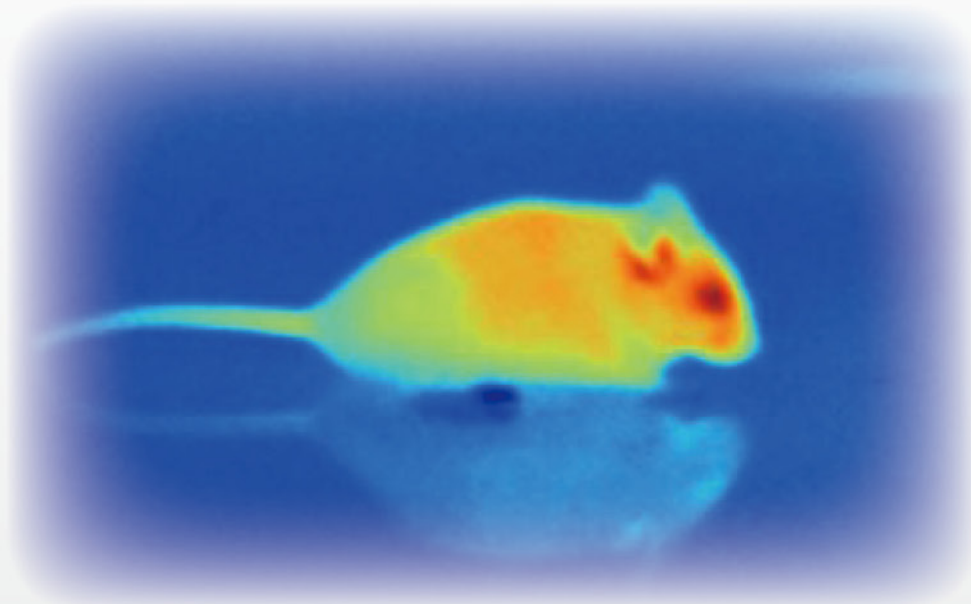




**In this lesson, we...**



**learned about some animals' strong sense of heat vision.**



**learned new words.**

- |                                     |                                    |
|-------------------------------------|------------------------------------|
| <input type="checkbox"/> scientific | <input type="checkbox"/> different |
| <input type="checkbox"/> detect     | <input type="checkbox"/> infrared  |
| <input type="checkbox"/> blood      | <input type="checkbox"/> equipment |

