

BATS — FACT OR FICTION

OBJECTIVE:

The students will complete 10 statements to assess what students may already know about bats.

NGSS: This is a formative assessment activity.

**MATERIALS:**

- Fact or Fiction response cards (per student)
- Student sheet: Fact or Fiction- What Do You Know About Bats? (per student)



TIME: 30-45 minutes

Teacher preparation

- Print and cut out Fact or Fiction response cards.
- Print student sheet Fact or Fiction- What Do You Know About Bats? for each student.

Teacher directions

1. Teacher will pass out the student sheet Fact or Fiction- What Do You Know About Bats? and give students time to answer the 10 questions.
2. After students have responded to the statements on the worksheet, the teacher will read each statement to the students and have them hold up the appropriate card identifying the statement as either a fact about bats or an untrue statement which would be fiction.
3. After all, 10 questions have been discussed and identified as fact or fiction, the teacher may also want to ask the students what other facts they know about bats. This can be recorded on an anchor chart or in their science notebooks.
4. The worksheet and anchor chart can be revisited throughout the guide so that students can see how their thinking has changed about bats. Students do not need to have the correct answers to all the statements at this time.

Note: This activity can also be done as described below.

1. Designate one side of your room as the Fact side of the room and the other side as the Fiction side. Instruct students to move to a side of the room based on whether they think the statement read is fact or fiction.
2. Read the statement and allow student to move to different sides of the room.
3. Before reading the next statement, allow students to move back to their starting point.
4. Repeat until all statements have been read.

Optional: This video addresses some of the misconceptions there are about bats. https://www.youtube.com/watch?v=D6e_qh3YRPs

FACT OR FICTION- WHAT DO YOU KNOW ABOUT BATS? (ANSWERS)

Statement	Fact	Fiction
1. Bats are birds.		X — They are mammals.
2. All bats are blind.		X — Bats have excellent eyesight.
3. All bats are carnivores.		X — In the US most bats are insectivorous, and a few are nectarivores. In other parts of the world some bats are primarily carnivorous, but bat diets vary greatly.
4. There are more than 30 species of bats in Texas.	X	
5. Most bats are nocturnal.	X	
6. All bats drink blood from humans.		X — There are only 3 species of bats that drink blood and only 1 of them feeds on the blood of mammals (usually deer or cattle).
7. Some bats use echolocation to find their prey.	X	
8. Bats sleep while hanging upside down.	X	
9. Bats have fingers.	X	
10. Bats live only in caves.		X — They can also be found under bridges, in crevices, in trees, on man-made structures, and more.

Reflection

Students can write what they would like to learn about bats during the unit.

ELPS

A teacher can read all the statements aloud to students and then they respond on the worksheet.