

# Articles- **PHYSICAL SYSTEMS**

Directions: Each student at your table will be given a different article to read. You will read your article and answer the questions on your worksheet. Then you will group up with someone else who has your same article. You will answer the questions from your group discussion. Then you will go back to your table and share your article with your table. Each student at the table will have a different article and a different worksheet.

## THE DARK SIDE OF LIGHT

1. What do you think the word nocturnal means?

2. What do bats use to sense their surroundings?

Describe how it works. -

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3. Give 3 reasons why light pollution is a problem for bats.

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4. Are bats blind? \_\_\_\_\_ Explain the ability bats have to see with their eyes.

5. From the section "Dependent on Darkness" explain 3 reasons light is bad for bats.

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6. List 2 benefits if LED lights.

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7. Which colors of LED lights bother nocturnal animals?

8. Define Wavelength:

9. Which color of light seems to be invisible to nocturnal animals?

10. Explain 3 benefits of bats.

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## EXPERT GROUP

Directions: You will find 2-3 other people that have your same article (blue paper). As a group, you will discuss what you read and answer the following questions.

1. Why is light pollution a problem for bats?

2. What are some solutions for light pollution? (Be specific).

## TABLE GROUPS

**Directions:** Each person at your table read a different article. They will be asking you these questions. Be prepared to answer.

1. How do bats see at night? Explain this phenomenon.
2. Why is our brighter world creating problems for the bats?
3. Why are bats beneficial?

The table below has questions for you to ask the people at your table about the articles that they read. Ask them the questions and write down their answers.

### **Tower Power:**

1. What is a castell?
2. What is the purpose of a castell?
3. Describe the process of building a castell.

### **Yo-Yo Wizards:**

1. Describe how to make a yo-yo "sleep."
2. Describe how to "wake" the yo-yo back up.
3. Describe what a modern yo-yo is made of?

### **Are You Being Watched?:**

1. How does facial recognition work?
2. How is facial recognition being used?
3. What are pros and cons of facial recognition?  
Pros-  
Cons-

## CLASS DISCUSSION

These articles are a review of science concepts. Discuss the science concepts from these articles. What were they and how do they apply to the articles?