

Name: \_\_\_\_\_

Hour: 1 2 3 4 5 6 7

## Peppered Moth Simulation

### Objectives

Describe the importance of coloration in avoiding predators.  
Relate environmental change to changes in organisms.  
Explain how natural selection causes populations to change.

### Materials

Sheet of white paper and newspaper  
Foragee  
Clock with second hand or stopwatch  
30 newspaper circles 30 white circles (made with hole punch)

### Purpose

In this lab, you will see what how predators locate prey in different environments. You will analyze how color affects an organism's ability to survive in certain environments. **Melanism** is when an organism becomes darker. **Industrial Melanism** is a term used to describe the adaptation of a population specifically in becoming darker in response to pollution. One example of rapid industrial melanism occurred in populations of peppered moths in the area of Manchester, England from 1845 to 1895. Before the industrial revolution, the trunks of the trees in the forest around Manchester were light grayish-green due to the presence of lichens. Most of the peppered moths in the area were light colored with dark spots. As the industrial revolution progressed, the tree trunks became covered with soot and turned dark. Over a period of 45 years, the dark variety of the peppered moth became more common.



|                   |            |
|-------------------|------------|
| Word              | Definition |
| Predation         |            |
| Natural Selection |            |
| Foragee           |            |
| Regulation        |            |
| Hypothesis        |            |
| Scientific Theory |            |

# Peppered Moth Simulation Key

**Chao Zhang**



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