Peppered Moth Simulation

Objectives:

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

Materials

Sheet of white paper
Newspaper
Forceps
Colored Pencils
Clock with Second Hand
30 newspaper circles (made with hole punch)
30 white circles (made with hole punch)



Purpose: In this lab, you will simulate how predators locate prey in different environments. You will analyze how color affects and organism's ability to survive in certain environments.

Industrial Melanism is a term used to describe the adaptation of a population 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 1890. 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.

Procedure.

 Place a sheet of white paper on the table and have one person spread 30 white circles and 30 newspaper circles over the surface while the other person isn't looking.

The "predator" will then use forceps to pick up as many of the circles as he can in 15 seconds.

This trial will be repeated with white circles on a newspaper background, newspaper circles on a white background, and newspaper circles on a newspaper background. Record the data in chart below.

Trial	Background	Starting Population		Number Picked up	
		Newspaper	White	White	Newspaper
0.0	white	30	30		
2	white	30	30		
3	newspaper	30	30		
4	newspaper	30	30		

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