

Unit 2 | Handout 5

*Lesson 4: Food Color Preference of the Cabbage White Butterfly*

**Purpose:** Set up an investigation that finds if the color of food affects which food butterflies eat.

**Guiding Questions:** How do food characteristics affect an organism's choice of food?

Investigation Planning	
Question(s) we will try to answer: <b>How does food color affect the cabbage white butterfly's food preference?</b>	
What we are testing; what we will change (independent variable):	What we will measure to (dependent variable):
What I think will happen and why (prediction):	
Explanatory hypothesis (offers an explanation to your prediction):	
Materials we will use in this investigation: - Markers - Droppings sheet	How we will make this a fair investigation (control; limit variance):
How we will design the investigation:	

Name .....

Period .....

Date .....

**Data**

It is important first to discuss how we will collect our data. Counting every sample will take too much time and be too much work. So, how do we collect data that is valid while also saving us time?

Create a data table below to record the results of the investigation.

**Conclusion**

In the space below, write a claim, support it with evidence, and write an analysis that connects your evidence to your claim.