



# Constructing an Explanation Science, Grades 9-12

## **Assignment Objectives**

• Guide students in constructing an explanation using their claim, scientific principles/knowledge, and evidence from observed data. Students will learn how to write their reasoning and utilize a Paper tutor for support.

#### Teacher Instructions

- This resource can be utilized on its own, or with our <u>Science Lab Report</u> (<u>NGSS</u>) <u>Activity</u>. It is appropriate for any science discipline (Biology, Physics, Chemistry, etc.)
- Provide students with the activity below once they have carried out their investigation.
- After students have read the assignment instructions, have students work through the outline below to support with constructing their explanation.
- As students work through this activity, they will engage with a Paper Live Help Tutor & Paper's Review Center for support and feedback.

### Ideas for Use

- Utilize during lab report projects to differentiate support as students are developing their scientific reasoning/explanation
- Independent practice







# **Constructing an Explanation**

Step 1: Providing Scientific Knowledge			
State Your Claim: Start your explanation by stating your claim.			
What was the claim you originally made? What were you trying to prove?			
your activity/investign you to draw a connect Pro Tip: Work with a Paper Live Share your assignment ins Try asking your tutor: Can	ific principles/knowledge on your topic using the research you did eady knew. What background knowledge or research did you do before ation? This will help prove you understand your chosen topic, and allow ction to your evidence.  Help tutor to start your Explanation.  Structions and rubric.  you help me to provide scientific knowledge on? Can you give me orinciples/knowledge on? for my activity?		
Step 2: Prove Your Claim			
Provide Evidence: Use the data and findings from your activity that prove your claim. Make sure to explain why they prove your claim.			

Name:	Date:	PAPER
Restate Your Claim: Wrap up your Explanation with a conclusion sentence that begins with a word such as "Therefore," "Hence," "Thus," "So," and restate the claim.		
		are complete, choose at edback and/or practice.
<ul> <li>Include your assignment in</li> <li>Try asking your tutor: Can</li> <li>Need help writing your ful</li> <li>Option 2: Submit your Expl</li> <li>Include your written activityou submit to the Review</li> </ul>	mmediate feedback, and also all astructions and this activity when you help me revise my Scientifical Explanation? Ask your tutor! anation to the Paper Reviews, assignment instructions (includenter.  Center.  Are your Explanation as needed.	lows you to present your Explanation. n you message your tutor. : Reasoning?