

# Sphere Impact Project



# Instructions

You and your group will investigate **ONE SPECIFIC** event and how it affects the 4 main spheres. You will be assigned an event to research. Prepare a poster to present to a small group that informs how matter and energy flowed into and out of your sphere due to the event.

- Each sphere will have it's own mini poster with your **name** on it.
- Each sphere will have 1-2+ hand drawn pictures.
- Each sphere will have answers to all 4 questions.


# RUBRIC

	Level 1	Level 2	Level 3	Level 4
<b>Mini Poster</b>	Does not have own mini poster for sphere	Has own mini poster without name		Has own mini poster with name
<b>Info</b>	Limited information presented and not correctly formatted	Limited information and it is correctly formatted (bulleted <u>and</u> minimum font size of 15) Answers 1-2 of the 4 questions. Why and How are not clearly defined or explained. Does not include double headed arrow to show sphere interactions.	Detailed, bulleted information that is relevant. Includes 1 or 2 pieces of data. Answers 4 of the 4 questions. Why and How are somewhat clearly defined and explained. Includes double headed arrow to show sphere interactions.	Detailed, bulleted information that indicates high level of understanding and is correctly sized. Also includes 3 or more pieces of data. Answers 4 of the 4 questions. Why and How are clearly defined and explained. Includes double headed arrow to show sphere interactions.
<b>Pictures</b>	1 picture is present, may or may not be significantly relevant	1 picture is present and it is significantly relevant	2 pictures are present, 1 is significantly relevant, 1 may not be relevant	2 or more significantly relevant pictures
<b>Sources</b>	1 source is listed	2 sources are listed	3 sources are listed	4+ sources listed

# Example

## FRONT SIDE

## BACK SIDE

Name	Atmosphere	Biosphere	Name
	<ol style="list-style-type: none"><li>1. How may your sphere have <u>caused</u> the event?</li><li>2. What are the effects of the event on your sphere?</li><li>3. What are the effects of changes in your sphere on the 3 other spheres?</li></ol>	<ol style="list-style-type: none"><li>1. Human activity caused (ignited by bullets)</li><li>2. Destroyed most of trees brush + living orgs. that couldn't flee fast enough.</li><li>3. Less biomass from trees = less photosynthesis = more <math>CO_2</math> in <u>atmosphere</u>. Hydrosphere _____ Geosphere _____</li></ol> 	
	<div>Questions</div>	<div>Event (ex: 2021 Caldor Fire)</div>	<div>Example</div>
Name	Geosphere	Hydrosphere	Name
<ul style="list-style-type: none"><li>• Each sphere answers all 3 questions</li><li>• Each sphere has at least 1 picture for level 2. 2+ pics for level 3/4. (must be hand drawn).</li><li>• Name on your sphere paper (on <u>front</u>)</li><li>• Sources listed w/ name on <u>back</u> of poster.</li></ul> <div>Instructions</div>			

Period
<div>Works Cited</div> <div>Atmosphere + name = url = url = url</div> <div>Biosphere + name = url = url = url</div> <div>Geosphere + name = url = url = url</div> <div>Hydrosphere + name = url = url = url</div>