| Name: | Date: |
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## **DEADLINE 2:**

## Background Research, Hypothesis, and Variables

## Part 1: Conduct Background Research

| ☐ Conduct Academic Research to discover more about your topic of choice.  |
|---|
| ☐ Find at least 2 academic sources of information about your experiment and jot down 3-5 key pieces of information collected from each source                                     |
| ☐ Summarize your 3 to 5 key points from each source in at least 2 complete  |
| sentences.  |
| $\square$ Include a bibliography at the end with the sources you used (see bottom of next page)   |
| The following questions provide a starting point for your background research. As you attempt to answer these questions, be sure to document your sources in the following pages. |
| a) Has someone done this experiment or investigated something similar to this topic before?   |
| b) What did they find out?  |
| c) How did they set up their experiment?  |
|   |
| d) Does someone make a claim about your experiment? (Example: One website says that)  —————————————————————————————————   |
|   |

| Name:                 | Date:  |     |
|-----------------------|--|-----|
|                       | nitions: Write down any important terms and their definitions belother page if you need to). | ow  |
| Term or phrase        | Definition   |     |
| Torri or prinace      | Definition   |     |
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| (Page #s - if you use | a book)  |     |
| 3 Key Points: (doe    | s not have to be in complete sentences)  |     |
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| Summary for source    | e 1: (2 sentences to write into the final draft of your research                             |     |
| report):              | ,  |     |
| report).              |  |     |
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| Works Cited- Cite th  | e source where you found the information related to your projec                              | ct. |
| Source 1:             |  |     |
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| Name:                                 | Date:   |
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|                                       |   |
| Source 2:                             |   |
| (Page #s - if you use a book)         |   |
| 3 Key Points: (does not have to be in | n complete sentences)                             |
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| Summary for source 2: (2 sentences    | to write into the final draft of your research    |
| report):                              |   |
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|                                       | ou found the information related to your project. |
| Source 2:                             |   |
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| Name:   | Date:             |
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| Source 3:   |                   |
| (Page #s - if you use a book)                       |                   |
| 3 Key Points: (does not have to be in con           | nplete sentences) |
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| Summary for source 2: (2 sentences to wr report):   | ·                 |
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| Works Cited- Cite the source where you fo Source 2: |                   |
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| Name:   | Date:                                  |
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| Part 2: Formula   | te Your Hypothesis                     |
| Based on the background research you h<br>your investigation. Remember, your hypo-<br>science fair question and should be based<br>Include a description of the scientific reas | d upon the research you have compiled. |
| You may format your hypothesis as an "IF sentence to help organize your thoughts.   | E, THENBECAUSE"                        |
|   |  |
|   |  |
| Peer Review of Hypothesis  Have 2 peers from class review your hypothesis.  Feedback should include: +: positive feedback   |  |
| Hypothesis:   |  |
| Peer Review 1   | Peer Review 2                          |
| +:  | +:                                     |
| $\Delta$ :  | $\Delta$ :                             |
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| Name:  | -                       | Date:              |
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| Final Question:  |                         |                    |
| Final Hypothesis:  |                         |                    |
| D 42 I1 4'C  |                         |                    |
| Independent Variable (What you are chan  | Your Variables          |                    |
| Dependent Variable (What you are measu   | ıring)                  |                    |
| Constants/ Controls (Identify what you are to make sure your results are accurate) | e keeping the same acro | ss your experiment |
|  |                         |                    |
| Teacher Approval   | (Signature)             | (Date)             |

Notes: