

## Planning your Introduction

Name:

Date:

### Introductory Paragraph

- Introduces your research topic and provides necessary background information.
- Captures the reader's interest and attention
- States the purpose of your research

---

---

---

---

---

---

### Research Statement:

---

---

### Body Paragraphs

- Each Topic Sentence develops one of the pieces of evidence you have selected to support the importance of your research.
- A., B., etc., are details that support the evidence
- 1., 2, etc., explain and connect your details to Research Statement

**Body Paragraph I (Topic Sentence):** \_\_\_\_\_

A. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

B. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

**Body Paragraph II (Topic Sentence):** \_\_\_\_\_

**A.** \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

**B.** \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

**Body Paragraph III (Topic Sentence):** \_\_\_\_\_

**A.** \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

**B.** \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

### **Concluding Paragraph**

- Restates the research statement in different words (does not make a brand- new point).
- “Wraps up” the Introduction.

---

---

---

---

---

---

## Graphic Organizer for Methods Section

Name:

Date:

It is important to make sure that your reader knows what you did to collect your data. This section will provide step by step procedures so the reader can replicate your work.

**Describes your research methods**

1. Introduce your data collection methods
2. Describe where the protocols came from (Citation)
3. Identify the step by step process including a description of the tools & chemical used.

### Introductory Paragraph for the methods section

Where did you collect your data?

When did you collect your data?

List of tests used to assess water quality.

### Body Paragraph 1: SPECIFIC TEST: Temperature

Describe where the protocols came from (Citation)

What does this test tell us about water quality?

Describe the step by step process including a description of the tools & chemical used.

### Body Paragraph 2: SPECIFIC TEST: Dissolved Oxygen

Describe where the protocols came from (Citation)

What does this test tell us about water quality?

Describe the step by step process including a description of the tools & chemical used.

### Body Paragraph 3: SPECIFIC TEST: PH

Describe where the protocols came from (Citation)

What does this test tell us about water quality?

Describe the step by step process including a description of the tools & chemical used.

**Body Paragraph 4: SPECIFIC TEST: Turbidity**

Describe where the protocols came from (Citation)

What does this test tell us about water quality?

Describe the step by step process including a description of the tools & chemical used.

**Body Paragraph 5: SPECIFIC TEST: Biotic Index**

Describe where the protocols came from (Citation)

What does this test tell us about water quality?

Describe the step by step process including a description of the tools & chemical used.

**Body Paragraph 6: SPECIFIC TEST: Habitat**

Describe where the protocols came from (Citation)

What does this test tell us about water quality?

Describe the step by step process including a description of the tools & chemical used.

**Body Paragraph 7: SPECIFIC TEST: Stream Flow**

Describe where the protocols came from (Citation)

What does this test tell us about water quality?

Describe the step by step process including a description of the tools & chemical used.

**Closing Paragraph for Methods Section**

**General Statement about the need to understand water quality using these seven measures.**

## Writing your Methods Section

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Introductory Paragraph for the methods section

Where did you collect your data?

When did you collect your data?

List of tests used to assess water quality.

---

---

---

---

---

---

---

Body Paragraph 1 (Topic Sentence): \_\_\_\_\_

A. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

B. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

Body Paragraph 2 (Topic Sentence): \_\_\_\_\_

A. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

B. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

Body Paragraph 3 (Topic Sentence): \_\_\_\_\_

A. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

B. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

Body Paragraph 4 (Topic Sentence): \_\_\_\_\_

A. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

B. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

Body Paragraph 5 (Topic Sentence): \_\_\_\_\_

A. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

B. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

Body Paragraph 6 (Topic Sentence): \_\_\_\_\_

A. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

B. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

Body Paragraph 7 (Topic Sentence): \_\_\_\_\_

A. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

B. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

### **Concluding Paragraph**

- Make a general Statement about the need to understand water quality using these seven measures.
- “Wraps up” the method section. (states a lesson, gives advice or a final insight, offers a solution, tells the results, etc.)

---

---

---

---

---

---

---



## Results Section

Name:

Date:

### Write a Paragraph to represent your Data in Words.

You will need to type an explanation of your data in paragraph form. Explain what results your group came up with and make sure it has all the qualities of a GOOD paragraph. (This means topic sentence, body sentences, and concluding sentence.) Refer to your table below when writing your paragraph. Begin by describing Date, Location, Air Temperature, Weather, etc. Then Explain what results you got from EACH of the water quality tests. End with a concluding sentence.

### Using and Citing Tables Charts and Graphs to present your data

#### What Tables Charts and Graphs should I use?

All images, photos, conceptual models, diagrams, graphs, etc. should be directly relevant to your thesis. Select tables, charts and graphs, that that will:

- Help your readers understand your point.
- Illustrate your ideas.
- Provide examples and evidence

Make direct references to your images in your essay. A few ways to do this:

- “An example of this style can be seen in Figure 1.”
- “This style was very ornate. (See example Figure 1)”
- “Many chairs of this era, particularly the chairs at Versailles (Figure 1), were very ornate.”

There are two ways to organize your images: either place them in your text next to the paragraph where you discuss them (Figure 1), or put them all together at the end of the section (Figure 2).

Illustrations

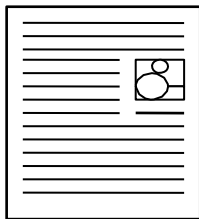


Figure 1: Figure in text.  
Diagram by Author

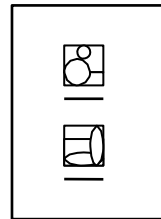


Figure 2: Figures at end of essay  
Diagram by Author

### Captions

Images always need captions. A caption is a title and short explanation, or description accompanying an illustration or a photograph. Captions should do two things: label the image and tell us the image's source. To label the image you can simply say,

Figure 1: ([www.EPA.gov](http://www.EPA.gov))

Figure 1: The Earth's Water Cycle ([www.NASA.com](http://www.NASA.com))

**If it is completely your own work, you do not need to cite sources.**

Figure 1: Results of Soil and Air Analysis

### Citation

Images that you use in your essay have to be cited; make sure the source is listed in your Bibliography or Reference List.

### Paragraph for the results section

It is important to make sure that your reader knows what your data was. This section will provide the results of your water quality tests.

Describes your Results

1. Introduce the Date, Location, Air Temp, Weather and any other general pertinent information.
2. Describe the results of ALL of your water quality tests.
3. Write a concluding sentence.
4. Add a Table of your results

### Graphic Organizer for Discussion Section

#### Using and Citing Tables Charts and Graphs to present your data

Name:

Date:

#### What Tables Charts and Graphs should I use?

All images, photos, conceptual models, diagrams, graphs, etc. should be directly relevant to your thesis. Select tables, charts and graphs, that that will:

- Help your readers understand your point.
- Illustrate your ideas.
- Provide examples and evidence

Make direct references to your images in your essay. A few ways to do this:

- “An example of this style can be seen in Figure 1.”
- “This style was very ornate. (See example Figure 1)”
- “Many chairs of this era, particularly the chairs at Versailles (Figure 1), were very ornate.”

There are two ways to organize your images: either place them in your text next to the paragraph where you discuss them (Figure 1), or put them all together at the end of the essay (Figure 2).

Illustrations

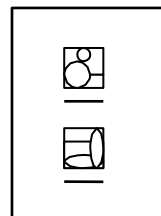
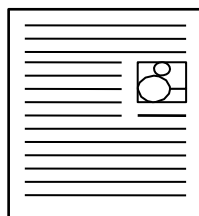


Figure 1: Figure in text.  
Diagram by Author

Figure 2: Figures at end of essay  
Diagram by Author

## Captions

Images always need captions. A caption is a title and short explanation, or description accompanying an illustration or a photograph. Captions should do two things: label the image and tell us the image's source. To label the image you can simply say,

Figure 1: (www.EPA.gov)

Figure 1: The Earth's Water Cycle (www.NASA.com)(

## Citation

Images that you use in your essay have to be cited; make sure the source is listed in your Bibliography or Reference List.

## Graphic Organizer for Discussion Section

Name:

Date:

The reader will want to know what your data mean. This section will explain to the reader what your data tell us about the water quality of the Pike River. It will also conclude the paper.

Describes what the data show us about the river.

1. Repeat your results.
2. Explain what the results mean *based on the readings*. Refer to your results section as well as the readings.
3. Explain whether this is a good result for the Pike River, a bad result, or an inconclusive result.
4. Describe where you found what the results mean. (Citation)

### Introductory Paragraph for the Discussion section

Where did you collect your data?

When did you collect your data?

List of tests used to assess water quality.

**Body Paragraph 1: SPECIFIC TEST: Temperature**

**What were the Results:**

**ANALYSIS: What does this test tell us about water quality of the Pike River? (EXPLAIN HOW THE RESULTS SUPPORTS YOUR ANALYSIS)**

What did the readings say about your results? You need a QUOTE, or you need to PARAPHRASE.

Either way (QUOTE or PARAPHRASE) you need to Cite your source. What reading did you use to analyze the test? CITATION:

\*\*\*\*\*

**Body Paragraph 2: SPECIFIC TEST: Dissolved Oxygen**

**Describe where the protocols came from (Citation)**

**What does this test tell us about water quality?**

**Describe the step by step process including a description of the tools & chemical used.**

**Body Paragraph 3: SPECIFIC TEST: PH**

**Describe where the protocols came from (Citation)**

**What does this test tell us about water quality?**

**Describe the step by step process including a description of the tools & chemical used.**

**Body Paragraph 4: SPECIFIC TEST: Turbidity**

**Describe where the protocols came from (Citation)**

**What does this test tell us about water quality?**

**Describe the step by step process including a description of the tools & chemical used.**

**Body Paragraph 5: SPECIFIC TEST: Biotic Index**

**Describe where the protocols came from (Citation)**

**What does this test tell us about water quality?**

**Describe the step by step process including a description of the tools & chemical used.**

**Body Paragraph 6: SPECIFIC TEST: Habitat**

Describe where the protocols came from (Citation)

What does this test tell us about water quality?

Describe the step by step process including a description of the tools & chemical used.

**Body Paragraph 7: SPECIFIC TEST: Stream Flow**

Describe where the protocols came from (Citation)

What does this test tell us about water quality?

Describe the step by step process including a description of the tools & chemical used.

**Closing Paragraph for Methods Section**

General Statement about the need to understand water quality using these seven measures.

**Writing your Discussion Section**

Name:

Date:

**Introductory Paragraph for the Discussion section**

Where did you collect your data?

When did you collect your data?

List of tests used to assess water quality.

---

---

---

---

---

---

**Body Paragraph 1 (Topic Sentence):** \_\_\_\_\_

---

**A.** \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

**B.** \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

**Body Paragraph 2 (Topic Sentence):** \_\_\_\_\_

---

**A.** \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

**B.** \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

**Body Paragraph 3 (Topic Sentence):** \_\_\_\_\_

---

**A.** \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

**B.** \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

**Body Paragraph 4 (Topic Sentence):** \_\_\_\_\_

---

**A.** \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

B. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

Body Paragraph 5 (Topic Sentence): \_\_\_\_\_

A. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

B. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

Body Paragraph 6 (Topic Sentence): \_\_\_\_\_

A. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

B. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

Body Paragraph 7 (Topic Sentence): \_\_\_\_\_

A. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

B. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

### Concluding Paragraph

- Make a general Statement about the need to understand water quality using these seven measures.
- “Wraps up” the method section. (states a lesson, gives advice or a final insight, offers a solution, tells the results, etc.)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## Graphic Organizer for Tables, Charts and Graphs

Name:

Date:

Focus Question:

Your Thesis:

DETAIL 1 from your data	DETAIL 2 from your data	DETAIL 3 from your data
SCIENTIFIC VOCABULARY:	SCIENTIFIC VOCABULARY:	SCIENTIFIC VOCABULARY:
TITLE	TITLE	TITLE
EXPLAIN HOW THE DETAIL CLARIFIES THE MODEL.	EXPLAIN HOW THE DETAIL CLARIFIES THE MODEL.	EXPLAIN HOW THE DETAIL CLARIFIES THE MODEL.
EXPLANATION OF HOW YOUR MODEL SUPPORTS YOUR THESIS:		
CITATION FOR YOUR MODEL		