**READING** 

# Synthesize before writing



## **COURTNEY GORDON**

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## Recognize the depths of thinking.

## Redefine research.

- 1. Review the traditional research-writing unit.
  - The unit spans multiple days/weeks.
- The product is long (e.g., 5-10 pages).
- The reader gathers his own sources.
- The final product includes the full writing process.

Explore topics. Find credible sources.	Read & collect info.	Synthesize & organize.	Write the first draft.	Revise & edit.
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- 2. Clarify the simulated research-writing task.
  - The task starts and ends in one sitting.
- The product is shorter (e.g., 2 pages).
- The reader utilizes provided sources.
- The final product includes only a strong first draft.

(Topic provided.) (Sources provided.)	Read & collect info.	Synthesize & organize.	Write the first draft.	(No opportunity for major revision.)
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## More than summarize, more than infer—students must synthesize.



#### Summarize the author's ideas.

Restate the most important information the author presented.



## Infer your thoughts.

Integrate multiple details from the text to generate a new idea that the author did not state literally.





View a mini-lesson.



Clarify summary v synthesis (and the Synthesis Test).



## Synthesize your thoughts.

Integrate multiple details from different texts to generate a new idea that none of the authors stated literally.



WRITE ABOUT READING

Session 1: Make inferences in 5 steps. Session 5: Improve extended responses.

# WRITE ABOUT READING

Synthesize before writing

SOURCE 3

## Synthesize in two steps.

## **Collect**

## Read each text and collect its details.

- Take notes on Source 1.
- Note the new and different information while reading Sources 2-3.
- Maintain source-specific notes.



Organize information collected from sources.



Mark new & contradictory information.



How do you prepare students to synthesize when reading off a screen?



# **Combine**

Reread across the texts' details.



Reread one detail. Consider how that detail addresses or answers the prompt/question, if at all.

- This means...
- This is saying...
- This is important because...



THINKING

**VOICE** 

Skim the other details, looking for a second one that has a similar meaning, sentiment, or reaction.

Reread the prompt/question.

Consider how the two details both address the prompt/question.

- How are they connected?
- How are they related?
- Does one detail build on the other?
- This is another...
- This is like (the first detail) in that...
- This also...
- This is kind of...
- If you think about it as..., then it's similar to the first detail because...



This is the working synthesis. Note it within the ba-bam bubble.

Skim for a third detail that seems to fit within the working synthesis.

After finding one, reread the prompt/question again.

Determine if the working synthesis needs a little revision in order to include this third detail.

Repeat the process, combing through all the text details collected. Massage the working synthesis, as needed, to address the prompt/question and encompass multiple text details found in multiple

## Synthesize before writing

#### last few decades, including droughts, Currently, most of the country is in the "most severe drought in recorded history."The hotter and drier the environment becomes due to rising temperatures, the higher the risk of wildfires starting from natural or human-related activity.

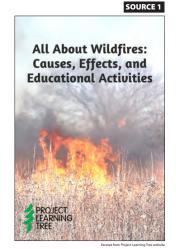
All About Wildfires

Intense heat and dry vegetation can guickly fuel a wildfire that can burn out of control. And when there's strong wind, it creates ideal conditions for fires to become widespread.

However, forest fires are sometimes welcome. Fires that are low intensity and occur naturally are necessary—and unavoidable. These fires are mainly caused by lightning that strikes trees or the ground.

Smaller fires can remove and reduce dead grass, brush, and trees that can fuel larger and more severe wildfires. Healthy fire also destroys smaller or weaker vegetation and sends their nutrients more quickly into the ground. As a result, the stronger trees and plants that stick around get more sunlight and nutrients to become even healthier, enabling their species to evolve.

With fewer plant roots taking up space on the forest floor more water becomes available for other vegetation and wildlife.



## PROMPT

Explain why some forest fires are fought while others are left to burn.

## WRITING FROM SOURCES

## SOURCE 1

- Dry vegetation fuels a wildfire.
- Strong wind = fire becomes widespread.
- Natural wildfires start from lightning strikes.
- Small fires remove/reduce dead grass, brush, and trees.
- Fire destroys smaller/weaker vegetation.
- Fire sends nutrients into the ground more quickly.
- Plants become even healthier.
- Fewer plant roots = more water for other vegetation and wildlife.



## SOURCE 2

- Certain pinecones cannot germinate in shade.
- They open up in heat and release the seeds.
- Seeds get sunlight after fire burned the old trees.
- · Germinate quickly and grow in abundance.



#### **5 Facts About Wildfires**

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FACT #3 — Fire prevents fire. It may seem strange, but smaller fires can actually prevent bigger ones from occurring. This is because small-er, cooler fires can help to remove any potential fuel like dry leaves,

FACT #1 — Humans cause nearly 85% of wildfires. While wildfires can FACT #4 — Wildfires can travel at a rate of up to 14.27 miles per hour PACLE ## — wildines can travel at a rate or up to 14.27 wiles per nour full differs need fuel, heat, and oxygen to begin and stay alive, but they require strong winds to spread the flames and cause an inferno of destruction. Once the wildfire the glins and spreads, it can travel at a rate of up to 6.7 miles per hour in forests and up to 14.27 miles per wild at 19.25 miles per hour in forests and up to 14.27 miles per spread so quickly that grant from the control of the contro noved at a rate equivalent to a football field per second

FACT 85 — Dry conditions increase the risk of wildfires Wildfires thrive fact 185 — Posest fires help the ecosystem. Small fires clear out ow grown areas and create open space for sunlight to shine down. This full of flammable materials like dead plants and dry vegetation.

## **SOURCE 3**

- Wildfires thrive on flammable materials like dead plants and dry vegetation.
- Strong winds spread the flames.
- Once it begins, travels (fast).
- Smaller, cooler fires remove potential fuel like dry leaves.
- New growth is valuable food and habitats for wildlife.



PROMPT Explain why some forest fires are fought while others are left to burn.

## **Writing from Sources**

## **SOURCE 1**

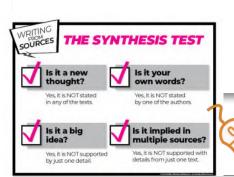
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### **SOURCE 2**

- Certain pinecones cannot germinate in shade.
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## **SOURCE 3**

• New growth is valuable food and habitats for wildlife.

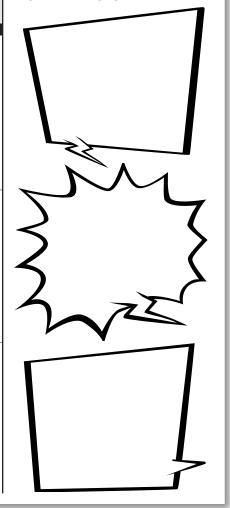


WRITE ABOUT READING | SESSION 5: Improve extended responses.





### **SYNTHESIS**



## Scaffold instruction.

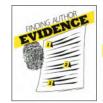
Start with visuals.

Practice 2-step synthesizing with visuals.



Support with pre-selected details.









Wean off the formula organizer.



