SYNTHESIS PRACTICE WORKSHEET

Master the art of synthesizing multiple sources for your literature review and research paper. This worksheet transforms you from source summarizer to synthesis expert.

☐ UNDERSTANDING SYNTHESIS	
What is Synthesis?	
Synthesis = Combining ideas from multiple sources to create NEW understanding show relationships between research findings.	g and
Summary = Describing what ONE source says.	
The Key Difference	
□ SUMMARY (Wrong Approach): "Smith (2023) found that social media increanxiety. Jones (2022) also found that social media affects mental health. Brown (2014) studied teenagers and social media."	
□ SYNTHESIS (Correct Approach): "Recent research consistently demonstrate social media negatively impacts adolescent mental health, with studies identifying primary mechanisms: sleep disruption (Smith, 2023; Jones, 2022), social compar (Brown, 2021; Davis, 2023), and reduced face-to-face interaction (Wilson, 2022) However, the magnitude of these effects varies significantly based on usage patter (Chen, 2023)."	three ison
Notice the Difference: - □ Multiple sources discussed together - □ Patterns and relationships identified - □ Your analytical voice leads - □ Sources support your a □ Nuances and contradictions noted	
☐ SYNTHESIS DIFFICULTY LEVELS	
Level 1: Basic Grouping	
Group sources that say similar things.	
Level 2: Pattern Recognition	
Identify trends, agreements, and disagreements across sources.	
Level 3: Critical Analysis	
Evaluate strengths, weaknesses, and research gaps.	
Level 4: Advanced Integration	
Create new frameworks by connecting ideas across sources.	

☐ EXERCISE 1: SUMMARY VS. SYNTHESIS IDENTIFICATION

Example A:
"Garcia (2023) conducted a study with 500 participants and found that exercise improves mood. The study used a randomized controlled trial design and measured mood using the Beck Depression Inventory."
This is: [] Summary [] Synthesis
Why?
Example B:
"Multiple longitudinal studies have established exercise as an effective intervention for depression, with effect sizes ranging from moderate to large (Garcia, 2023; Smith, 2022; Johnson, 2021). However, research disagrees on optimal duration and intensity, with some studies suggesting 30 minutes daily (Garcia, 2023) while others recommend 60 minutes (Smith, 2022)."
This is: [] Summary [] Synthesis
Why?
Example C:
"Brown (2022) argues that meditation reduces stress. The study included 200 participants who meditated for 20 minutes daily for 8 weeks."
This is: [] Summary [] Synthesis
Why?
Example D:
"While early research focused primarily on physical benefits of meditation (Brown, 2018; Taylor, 2019), recent studies have shifted toward neurological mechanisms (Kim, 2022; Lopez, 2023), revealing structural brain changes in regions associated with emotional regulation. This evolution reflects broader trends in contemplative science toward biological explanations."
This is: [] Summary [] Synthesis
ins is. [] Summary [] Synthesis
Why?
Why?

Instructions: Identify whether each example is SUMMARY or SYNTHESIS.

 $riangleq \Box$ EXERCISE 2: TRANSFORM SUMMARY INTO SYNTHESIS

Instructions: Rewrite these summaries as synthesis by combining sources and adding analysis.

Practice 1: Social Media

Given Information: - Source A (Lee, 2023): Instagram use correlates with body dissatisfaction in teenage girls - Source B (Wang, 2022): TikTok engagement predicts anxiety symptoms

- Source C (Davis, 2023): Snapchat use shows no significant mental health effects

Current Writing (Summary Style): "Lee (2023) found that Instagram use correlates with body dissatisfaction in teenage girls. Wang (2022) found that TikTok engagement predicts anxiety symptoms. Davis (2023) found that Snapchat use shows no significant mental health effects."

Your Synthesis (Rewrite combining all three):
Synthesis Checklist for Your Answer: - [] Combined all three sources in one discussion - [] Identified pattern or difference between platforms - [] Your analytical voice leads the discussion - [] Sources support (not lead) the analysis - [] Noted platform-specific differences
Practice 2: Climate Change
Gven Information: - Source A (Martinez, 2023): Carbon taxes reduced emissions by 15% in Sweden - Source B (Thompson, 2022): Carbon taxes showed minimal impact in Australia - Source C (Kim, 2023): Success depends on tax level and revenue recycling
Current Writing (Summary Style): "Martinez (2023) studied carbon taxes in Sweden. Thompson (2022) studied carbon taxes in Australia. Kim (2023) analyzed factors affecting carbon tax success."
Your Synthesis (Rewrite combining all three):
Synthesis Elements to Include: - [] Explain the contradiction between Studies A and B-[] Use Study C to resolve the apparent contradiction - [] Identify the key factor (context matters) - [] Lead with your analytical insight
Practice 3: Remote Work
Given Information: - Source A (Brown, 2023): Remote workers report higher productivity (n=1,000) - Source B (Garcia, 2022): Remote workers report higher productivity (n=500) - Source C (Wilson, 2023): Remote workers report higher productivity (n=750) - Source D (Chen, 2022): Remote work productivity depends on job type
Current Writing (Summary Style): "Brown (2023) found remote workers are more productive. Garcia (2022) also found remote workers are more productive. Wilson (2023) similarly found remote workers are more productive."
Your Synthesis (Rewrite combining all four):

□ EXERCISE 3: THEMATIC SYNTHESIS BUILDER Instructions: You have 6 sources on "Factors Affecting Student Performance." Organize them thematically and write synthesis paragraphs. Given Sources: Source 1 - Anderson (2023): Sleep quality strongly predicts GPA (r=0.65, p<001) Source 2 - Martinez (2022): Study environment affects concentration and test scores Source 3 - Kim (2023): Sleep duration under 7 hours correlates with poor academic outcomes Source 4 - Lopez (2022): Time management skills predict academic success Source 5 - Taylor (2023): Quiet study spaces improve retention by 40% Source 6 - Wilson (2022): Students with planners achieve 20% higher grades Step 1: Identify Themes Group sources by theme: Theme 1: Sources that fit: #, # Theme 2: Sources that fit: #, # Sources that fit: #, # Theme 3 (if applicable): Sources that fit: #, # Step 2: Write Synthesis for Theme 1 Theme 1 Synthesis Paragraph: Self-Check: - [] Topic sentence introduces the theme - [] Multiple sources cited togethe contains and the sources of		ne citation cluster - [] Include the nuancing study (Study D) - [] Show al strength (mention combined sample size)
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•	-[] Specific	evidence/data included - [] Relationships between studies shown - [] Your
Theme 2 Synthesis Paragraph:	Step 3: W	rite Synthesis for Theme 2
, , ,	Theme 2 Svi	nthesis Paragraph:
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Advanced Elements: - [] Shows how themes interact or relate - [] Identifies broade battern across themes - [] Suggests implications or future research - [] Demonstrates sophisticated analytical thinking EXERCISE 4: AGREEMENT & DISAGREEMENT SYNTHESIS Instructions: Practice synthesizing sources that agree AND disagree. Scenario: Homework Effectiveness Agreement Sources: - Chen (2023): Homework improves retention by 30% - Davis 2022): Students with regular homework score 15% higher on tests - Wilson (2023): Homework reinforces classroom learning Disagreement Sources: - Martinez (2022): Homework shows no significant effect or long-term learning - Kim (2023): Excessive homework increases stress without acader benefits - Lopez (2022): Quality of homework matters more than quantity
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beliefits Lopez (2022). Quality of homework matters more than quality
Required Elements: - [] Present both perspectives fairly - [] Use transition words However, Conversely, While, In contrast) - [] Identify what might explain the lisagreement - [] Avoid taking a side (synthesis, not argument) - [] Lead with your malytical framing
Suggested Structure: 1. Introduce the debate/disagreement 2. Present evidence for position A (cite multiple sources) 3. Present evidence for position B (cite multiple source). Analyze what might explain the difference 5. Identify research gaps or future directions.

Your Example: Contradiction/Disagreement 3. "While some research suggests (Source A, Year), o have found (Source B, Year), indicating Your Example: 4. "The literature presents conflicting findings regarding bu	ther studies
3. "While some research suggests (Source A, Year), o have found (Source B, Year), indicating Your Example: 4. "The literature presents conflicting findings regarding but	·**
have found (Source B, Year), indicating Your Example: 4. "The literature presents conflicting findings regarding	·**
4. "The literature presents conflicting findings regarding bu	_
(Source A, Year) reporting bu	
(Source B, Year) showing"	with
Your Example:	-
Evolution Over Time	
5. "Early research focused on (Source A, Year; Source recent studies have shifted toward (Source C, Year; Year)."	e B, Year), bu Source D,
Your Example:	-
6. "Quantitative studies have demonstrated (Source A, B, Year), while qualitative research reveals (Source Your Example:	Year; Source C, Year)."
Gap Identification	
7. "Although extensive research has examined (Source Source B, Year), few studies have investigated, represignificant gap."	
Your Example:	-
☐ EXERCISE 6: FIX THE SYNTHESIS Instructions: Identify problems and rewrite these weak synthesis attempts.	
Example 1	
Weak Synthesis: "Smith says exercise is good. Jones agrees. Brown also the	inks so."
Problems Identified: [] Too informal	

our Improved Version:	
Example 2	
Weak Synthesis: "Many researchers have studied social media. Smith (2023) stronstagram. Jones (2022) studied TikTok. Brown (2021) studied Snapchat. All of tound interesting results."	
Problems Identified:	
] Sources listed separately] No actual synthesis] Vague ("interesting results")] Missing specific findings] No pattern identified	
Your Improved Version:	
Example 3	
Weak Synthesis: "Smith (2023) found that meditation reduces stress by 40%. The add 500 participants and used a randomized controlled trial design. Participants makes for 20 minutes daily for 8 weeks. The results were statistically significant at p<.00	editated
Problems Identified:	
] This is summary, not synthesis] Only one source] Too much methodological detail] No comparison to other research	
] No broader context	
Your Improved Version (add 2-3 imaginary sources to create synthesis):	
	PING
☐ EXERCISE 7: VISUAL SYNTHESIS MAPI	
EXERCISE 7: VISUAL SYNTHESIS MAPI Instructions: Create a visual map showing how sources relate before writing you ynthesis.	ur
instructions: Create a visual map showing how sources relate before writing you	ur

Sources: Sources:	
MODERATING FACTORS:	
- Task Type:	
· Music Type: · Familiarity:	
Now Write Synthesis Based on Your Map:	
SYNTHESIS QUALITY SELF-ASSESSMEN	NT
After writing any synthesis, check your work:	
Content Quality	
Multiple sources combined: At least 2-3 sources per main point	
Pattern identified: Shows agreement, disagreement, or trend	
Specific evidence: Includes data, statistics, or concrete findings	
Critical analysis: Evaluates strengths, limitations, or gaps	
Your voice leads: Your analysis comes first, sources support	
Structure & Flow	
☐ Topic sentence: Clearly introduces the theme or point	
Logical organization: Ideas flow logically from one to next	
☐ Transitions used: Smooth connections between ideas	
No source listing: Sources discussed together, not separately	
Conclusion/implication: Shows why this matters	
Technical Quality	
Proper citations: All sources cited correctly	
Academic language: Formal, precise terminology	
Present tense: Uses present tense for discussing sources	
Balanced treatment: Fair presentation of all perspectives	
No plagiarism: Everything in your own words (except quotes)	
Advanced Quality	
Advanced Quality Methodological awareness: Notes sample sizes, study designs Temporal context: Indicates when research was conducted if relevant	
 ✓ Methodological awareness: Notes sample sizes, study designs ✓ Temporal context: Indicates when research was conducted if relevant 	

Use these fill-in templates for quick synthesis construction:

Template 1: Basic Agreement

"Research consistently demonstrates that [MAIN FINDING], with [#] studies showing [SPECIFIC EVIDENCE] ([Source A, Year]; [Source B, Year]; [Source C, Year]). These findings are particularly robust across [CONTEXTS/POPULATIONS], suggesting [IMPLICATION]."

Template 2: Disagreement/Debate

"The literature presents conflicting views on [TOPIC]. Some researchers argue that [POSITION A] ([Source A, Year]; [Source B, Year]), citing [EVIDENCE]. However, other studies suggest [POSITION B] ([Source C, Year]; [Source D, Year]), based on [DIFFERENT EVIDENCE]. This disagreement may stem from [METHODOLOGICAL DIFFERENCES / CONTEXT / POPULATION]."

Template 3: Evolution Over Time

"Early research on [TOPIC] focused primarily on [EARLY FOCUS] ([Source A, Year]; [Source B, Year]). However, recent studies have shifted toward [NEW FOCUS] ([Source C, Year]; [Source D, Year]), reflecting [BROADER TREND/DEVELOPMENT]. This evolution has revealed [NEW INSIGHTS]."

Template 4: Methodological Synthesis

"[RESEARCH TYPE A] studies have consistently found [FINDING A] ([Source A, Year]; [Source B, Year]), while [RESEARCH TYPE B] research reveals [FINDING B] ([Source C, Year]; [Source D, Year]). Together, these complementary approaches suggest [INTEGRATED UNDERSTANDING]."

Template 5: Gap Identification

"While extensive research has examined [WELL-STUDIED ASPECT] ([Source A, Year]; [Source B, Year]; [Source C, Year]), relatively few studies have investigated [UNDERSTUDIED ASPECT]. This gap is particularly significant because [IMPORTANCE], suggesting a valuable direction for future research."

☐ COMMON SYNTHESIS MISTAKES & FIXES

Mistake	Example	Fix	Better Version
Source Listing	"Smith says X. Jones says Y. Brown says Z."	Combine sources under common themes	"Research consistently shows X (Smith; Jones; Brown)."
Over-Quoting	"Smith states 'social media affects teens' and Jones argues 'platforms impact youth'."	Paraphrase and synthesize	"Multiple studies demonstrate social media's impact on adolescents (Smith; Jones)."
No Analysis	"Three studies found that exercise helps."	Add specificity and implications	"Exercise interventions consistently improve mental health outcomes, with effect sizes ranging from moderate to large (Smith; Jones; Brown)."
Source-Led	"According to Smith Jones also found Brown discovered"	Lead with your analysis	"Sleep quality emerges as a critical factor, with multiple studies showing"
Vague Language	"Many studies show that things improved."	Be specific	"Five randomized controlled trials (n=2,500) demonstrate 30% improvement"

☐ ADVANCED SYNTHESIS CHALLENGE

Complex Multi-Source Integration:

Write a 200-word synthesis paragraph using these 8 sources on "Factors Affecting Employee Retention":

- 1. Salary increase of 10%+ reduces turnover by 25% (Smith, 2023)
- 2. Work-life balance rated most important by 68% of employees (Jones, 2022)
- 3. Career development opportunities predict retention (Brown, 2023)
- 4. Toxic management causes 40% of voluntary departures (Davis, 2022)
- 5. Remote work options increase retention by 15% (Wilson, 2023)
- 6. Company culture matters more than salary for millennials (Kim, 2022)
- 7. Recognition programs show minimal retention impact (Lopez, 2022)
- 8. Combined factors create strongest retention outcomes (Taylor, 2023)

Your Challenge Synthesis (200 words):
Advanced Evaluation Criteria: -[] All 8 sources incorporated (not necessarily cited separately) -[] Multiple themes identified and organized -[] Contradictions addressed (Source 6 vs. Source 1; Source 7 stands alone) -[] Source 8's integrative finding used to conclude -[] Specific data included for credibility -[] Your analytical framework leads the discussion -[] Implications for practice suggested -[] Stays within 200-word limit

☐ SYNTHESIS LANGUAGE BANK

Use these academic phrases to strengthen your synthesis:

Showing Agreement

- "Research consistently demonstrates..."
- "Studies converge on the finding that..."
- "Multiple investigations have established..."
- "A growing body of evidence suggests..."
- "Scholars agree that..."

Showing Disagreement

- "The literature presents conflicting findings..."
- · "Research yields mixed results regarding..."
- "While some studies suggest X, others indicate Y..."
- "Scholars debate whether..."
- "Contradictory evidence exists concerning..."

Showing Evolution

- "Early research focused on... Recent studies have shifted to..."
- "The field has evolved from... toward..."
- "Initial investigations examined... Contemporary research explores..."
- "Historically,... Current trends indicate..."

Showing Patterns

- "Three distinct themes emerge..."
- "A common pattern across studies reveals..."
- "Consistent findings indicate..."
- "Research identifies four key factors..."

Showing Gaps

- "Few studies have examined..."
- "Research remains limited regarding..."
- "A notable gap exists in..."
- "Future research should address..."
- "Scholars have yet to investigate..."

Showing Implications

- "These findings suggest that..."
- "This research indicates..."
- "The implications extend to..."
- "Results demonstrate the importance of..."

▲ □ FINAL PRACTICE: WRITE YOUR OWN SYNTHESIS

Topic: [Your Research Topic]

Your Sources (list 4-6):

1.

3.	
4.	
5.	
6.	
Theme/Focus:	
Your Synthesis Paragraph (150-200 words):	
Self-Evaluation:	
pattern or theme - [] Included specific evidence - [] Noted agreements/disagrour voice led the discussion - [] Cited sources properly - [] Added critical	greements - []
What synthesis techniques did you use? - [] Combined multiple sources - [] pattern or theme - [] Included specific evidence - [] Noted agreements/disa, Your voice led the discussion - [] Cited sources properly - [] Added critical dentified implications or gaps Areas for Improvement:	greements - []
pattern or theme - [] Included specific evidence - [] Noted agreements/disa Your voice led the discussion - [] Cited sources properly - [] Added critical identified implications or gaps	greements - []
pattern or theme - [] Included specific evidence - [] Noted agreements/disa Your voice led the discussion - [] Cited sources properly - [] Added critical dentified implications or gaps Areas for Improvement: SYNTHESIS MASTERY CHECKLIST	greements - [] analysis - []
pattern or theme - [] Included specific evidence - [] Noted agreements/disa Your voice led the discussion - [] Cited sources properly - [] Added critical identified implications or gaps Areas for Improvement: SYNTHESIS MASTERY CHECKLIST You've mastered synthesis when you can: Level 1: Beginner ✓ - [] Combine 2-3 sources in one discussion - [] Identified impreements between sources - [] Use proper citation format - [] Write in your canse of the proper citation f	greements - [] analysis - [] ntify basic our own words
Pattern or theme - [] Included specific evidence - [] Noted agreements/disal Your voice led the discussion - [] Cited sources properly - [] Added critical Identified implications or gaps Areas for Improvement: SYNTHESIS MASTERY CHECKLIST You've mastered synthesis when you can: Level 1: Beginner ✓ - [] Combine 2-3 sources in one discussion - [] Identified agreements between sources - [] Use proper citation format - [] Write in your op lagiarism) Level 2: Intermediate ✓ ✓ - [] Combine 4-6 sources in one paragraph - [poth agreements AND disagreements - [] Use academic synthesis language - [] Use academic synthesis lan	greements - [] analysis - [] antify basic our own words [] Identify - [] Lead with on - [] r time - []

		Sources Synthesized	Quality Level	Notes
			☐ Beginner ☐	
			Intermediate □	
			Advanced	
			☐ Beginner ☐	
			Intermediate	
			Advanced	
			☐ Beginner ☐	
			Intermediate	
			Advanced	
	eet Version: 1.0 lated: 2025			
ast Opua	atcu. 2023			
Synthe	esis Practice Workshee	et - For Academic Use		
Synthe	esis Practice Workshee	t - For Academic Use		
Remembereds, sour	EY TAKE AWA Per: 1. Synthesis = Cources support 3. Look widence and data 5. Uto build this critical skill s is the heart of academ		disagreements 4. ☐ In proper citations 6. ☐	nclude Practice