ANALYTICAL ESSAY GRADING RUBRIC

HOW TO USE THIS RUBRIC

This rubric breaks down exactly what teachers evaluate when grading analytical essays.

- Use it to **self-assess** before submission
- Use it to understand feedback after receiving grades
- Use it to set improvement goals for future essays

Scoring System: Most rubrics use 4-5 performance levels. This rubric uses 4:

- **Advanced** (**A**) = 90-100%
- **Proficient** (**B**) = 80-89%
- **Developing** (C) = 70-79%
- **Beginning (D-F)** = Below 70%

MAIN RUBRIC CATEGORIES

CATEGORY 1: THESIS & CENTRAL ARGUMENT (20%)

What Teachers Look For:

The thesis is the foundation of your entire essay. Teachers evaluate whether it's specific, arguable, analytical, and effectively guides the essay.

ADVANCED (18-20 points)

Thesis Statement:

- Makes a sophisticated, insightful claim that goes beyond obvious observations
- Is highly specific with clear supporting points previewed
- Takes a strong, defensible analytical position
- Demonstrates original thinking and depth of understanding
- Clearly answers "so what?" (explains significance)

Argument Development:

- Every paragraph directly advances the thesis
- Argument builds logically and cohesively throughout

- Demonstrates nuanced understanding of complexity
- Addresses potential counterarguments or complications

Teacher Comments You'll See:

- "Excellent thesis—specific and insightful"
- "Strong analytical claim"
- "Sophisticated argument"
- "Your thesis guides the essay effectively"

PROFICIENT (16-17 points)

Thesis Statement:

- Makes a clear, arguable claim
- Is specific with supporting points indicated
- Takes an analytical position (not just observation)
- Explains significance adequately
- May lack the sophistication or originality of advanced work

Argument Development:

- Most paragraphs support the thesis clearly
- Argument is logical and mostly cohesive
- Shows solid understanding
- May not fully address complexity

Teacher Comments You'll See:

- "Clear thesis"
- "Good argument"
- "Supports your claim well"
- "Could push analysis deeper"

DEVELOPING (14-15 points)

Thesis Statement:

• States a position but may be too broad or vague

- Is somewhat arguable but may lean toward observation
- Supporting points are unclear or missing
- Significance is stated but underdeveloped
- May be too obvious or simplistic

Argument Development:

- Some paragraphs support thesis; others drift off-topic
- Argument has logical gaps
- Understanding is surface-level
- Doesn't address complexity

Teacher Comments You'll See:

- "Make your thesis more specific"
- "This is more observation than argument"
- "Clarify your main claim"
- "Some paragraphs don't connect to thesis"

BEGINNING (0-13 points)

Thesis Statement:

- Missing, unclear, or not analytical
- Makes an obvious statement or just summarizes
- Is too broad, vague, or confusing
- Doesn't preview supporting points
- Fails to explain significance

Argument Development:

- Lacks clear central argument
- Paragraphs don't connect cohesively
- Shows misunderstanding of text/topic
- No engagement with complexity

Teacher Comments You'll See:

• "Where is your thesis?"

- "This is plot summary, not analysis"
- "Too vague—what's your actual argument?"
- "See me about developing a thesis"

CATEGORY 2: EVIDENCE & SUPPORT (20%)

What Teachers Look For:

Quality and quantity of evidence, relevance to argument, proper citation, and effective use of textual support.

ADVANCED (18-20 points)

Evidence Quality:

- Uses multiple (2-3+) specific, relevant pieces of evidence per paragraph
- Selects the strongest, most compelling evidence available
- Evidence directly proves each claim
- Shows excellent judgment in choosing quotes

Evidence Usage:

- Every piece of evidence serves a clear analytical purpose
- Evidence is substantial (not trivial details)
- Draws from throughout the text (not clustered)
- May incorporate secondary sources appropriately

Citations:

- All citations are accurate and properly formatted
- Follows MLA/APA/Chicago consistently
- No citation errors

Teacher Comments You'll See:

- "Excellent evidence selection"
- "Perfect citations"
- "Strong textual support"
- "Your evidence really proves your points"

PROFICIENT (16-17 points)

Evidence Quality:

- Uses adequate (2-3) relevant pieces of evidence per paragraph
- Evidence is appropriate and supports claims
- Generally good selection, though not always optimal
- Evidence is clear and specific

Evidence Usage:

- Most evidence supports argument well
- Evidence is relevant, though occasionally tangential
- Generally distributed throughout text
- Focuses on primary sources appropriately

Citations:

- Citations are mostly accurate with minor errors
- Format is mostly consistent
- A few citation mistakes don't impede understanding

Teacher Comments You'll See:

- "Good evidence"
- "Support is solid"
- "Check citation format here"
- "Good quote choice"

DEVELOPING (14-15 points)

Evidence Quality:

- Uses limited evidence (1-2 pieces per paragraph)
- Evidence is sometimes relevant but not always optimal
- Some evidence is weak or doesn't prove the claim
- Evidence may be too general or vague

Evidence Usage:

• Evidence sometimes doesn't clearly support claims

- Relies too heavily on one section of text
- May include irrelevant evidence
- Evidence is superficial

Citations:

- Inconsistent or incorrect citation format
- Missing citations for some quotes
- Frequent citation errors
- Format confusion (mixing styles)

Teacher Comments You'll See:

- "Need more evidence here"
- "This quote doesn't support your point"
- "Fix your citations"
- "Evidence is too vague"

BEGINNING (0-13 points)

Evidence Quality:

- Little to no relevant evidence
- Evidence is missing, irrelevant, or fabricated
- No quotes or specific textual references
- Evidence is extremely weak

Evidence Usage:

- Evidence doesn't support claims
- Relies on plot summary instead of evidence
- No connection between evidence and argument
- May plagiarize

Citations:

- Missing citations entirely
- Incorrect citation format throughout
- No Works Cited/References page

• Serious citation errors

Teacher Comments You'll See:

- "Where's your evidence?"
- "You need quotes from the text"
- "Missing citations—see me"
- "This is not acceptable"

CATEGORY 3: ANALYSIS & INTERPRETATION (25%)

What Teachers Look For:

This is THE MOST IMPORTANT category. Teachers want to see deep thinking about HOW and WHY evidence proves your claim, not just WHAT happens.

ADVANCED (23-25 points)

Analysis Depth:

- Provides thorough, sophisticated analysis for all evidence (2:1 ratio minimum)
- Explains WHAT evidence shows, HOW it works, and WHY it matters
- Goes beyond obvious interpretations to reveal deeper meanings
- Connects analysis back to thesis repeatedly
- Shows original insight and critical thinking

Analysis Quality:

- Interprets, doesn't just summarize or describe
- Identifies and explains literary/rhetorical techniques
- Explores complexity and nuance
- Makes connections others might miss
- Uses strong analytical verbs (reveals, demonstrates, suggests)

Integration:

- Analysis flows naturally from evidence
- Explains significance without restating
- Builds layered interpretation

• Shows how evidence proves thesis

Teacher Comments You'll See:

- "Excellent analysis"
- "Great insight here"
- "You really dig into the meaning"
- "This is sophisticated thinking"
- "Perfect—you explain HOW and WHY"

PROFICIENT (20-22 points)

Analysis Depth:

- Provides solid analysis for most evidence (approaching 2:1 ratio)
- Usually explains WHAT and HOW; sometimes explains WHY
- Goes somewhat beyond surface observations
- Generally connects to thesis
- Shows good understanding

Analysis Quality:

- More interpretation than summary, though some description remains
- Identifies some techniques
- Shows competent understanding
- Makes reasonable connections
- Uses analytical language

Integration:

- Analysis usually connects to evidence
- Explains meaning adequately
- Some repetition of evidence
- Generally clear purpose

Teacher Comments You'll See:

- "Good analysis"
- "Solid interpretation"

- "Could go deeper here"
- "Nice connection"
- "Explain more about HOW this proves your point"

DEVELOPING (18-19 points)

Analysis Depth:

- Limited analysis (less than 2:1 ratio; often 1:1 or less)
- Explains WHAT but rarely HOW or WHY
- Stays at surface level
- Weak connection to thesis
- Shows basic understanding only

Analysis Quality:

- More summary than analysis
- Restates evidence without interpreting
- Rarely identifies techniques
- Makes obvious observations
- Uses weak verbs (shows, says, talks about)

Integration:

- Analysis is disconnected from evidence
- Simply restates quotes in different words
- Unclear how evidence proves claim
- Lots of "this quote shows..." without explaining HOW

Teacher Comments You'll See:

- "This is summary, not analysis"
- "Dig deeper—explain WHY"
- "Don't just restate the quote"
- "More analysis needed"
- "So what? What does this mean?"

BEGINNING (0-17 points)

Analysis Depth:

- Little to no analysis present
- Only summary or description
- No explanation of significance
- No connection to thesis
- Misunderstands text/topic

Analysis Quality:

- Entirely plot summary or paraphrase
- No interpretation of meaning
- No technique identification
- Personal opinion without support
- Confused understanding

Integration:

- No clear connection between evidence and claims
- Drops quotes without explanation
- Analysis is absent or incomprehensible
- Shows fundamental misunderstanding

Teacher Comments You'll See:

- "Where's the analysis?"
- "You're just summarizing"
- "You need to interpret, not describe"
- "This doesn't analyze anything"
- "See me about analysis"

CATEGORY 4: ORGANIZATION & STRUCTURE (15%)

What Teachers Look For:

Logical flow, clear paragraph structure, effective introduction and conclusion, coherent essay development.

ADVANCED (14-15 points)

Overall Structure:

- Introduction engages reader and provides necessary context
- Thesis is positioned effectively (usually last sentence of intro)
- Body paragraphs follow logical, strategic order
- Conclusion synthesizes without mere repetition
- Essay has clear beginning, middle, and end

Paragraph Structure:

- Each paragraph has one clear main point
- Follows effective pattern: Topic sentence → Evidence → Analysis → Transition
- Paragraphs are appropriately developed (200-300 words)
- Each paragraph clearly advances the argument

Flow:

- Ideas build naturally and logically
- Strategic organization enhances argument
- No abrupt jumps or confusing sections
- Reader never loses track of argument

Teacher Comments You'll See:

- "Excellent organization"
- "Clear structure"
- "Flows beautifully"
- "Well-organized argument"

PROFICIENT (12-13 points)

Overall Structure:

- Introduction provides context and includes clear thesis
- Body paragraphs follow logical order
- Conclusion restates thesis and main points
- Generally clear structure throughout

Paragraph Structure:

- Most paragraphs have clear main points
- Usually follows Topic → Evidence → Analysis pattern
- Paragraph development is adequate
- Paragraphs generally support argument

Flow:

- Ideas mostly follow logically
- Organization is sensible though not strategic
- Occasional unclear connections
- Reader can follow argument

Teacher Comments You'll See:

- "Good organization"
- "Clear structure"
- "Paragraphs work well"
- "Flows smoothly"

DEVELOPING (11-12 points)

Overall Structure:

- Introduction is weak or provides insufficient context
- Thesis placement may be unclear
- Body paragraph order is somewhat random
- Conclusion may be weak, repetitive, or abrupt
- Structure is present but not effective

Paragraph Structure:

- Paragraph main points are sometimes unclear
- Structure is inconsistent within paragraphs
- Some paragraphs are too short or too long
- Not all paragraphs clearly support thesis

Flow:

- Ideas sometimes jump without clear connection
- Organization seems arbitrary
- Some confusing sections
- Reader occasionally loses thread

Teacher Comments You'll See:

- "Organize this more clearly"
- "Paragraph order seems random"
- "Strengthen your introduction"
- "Conclusion needs work"
- "This paragraph doesn't fit here"

BEGINNING (0-10 points)

Overall Structure:

- Missing or very weak introduction
- Unclear or missing thesis
- No logical paragraph order
- Weak or missing conclusion
- Serious structural problems

Paragraph Structure:

- Paragraphs lack clear main points
- No discernible internal structure
- Extremely short or excessively long paragraphs
- Paragraphs don't relate to thesis

Flow:

- Ideas are chaotic or random
- No clear organization
- Reader cannot follow argument
- Serious confusion throughout

Teacher Comments You'll See:

- "Needs complete reorganization"
- "Structure is unclear"
- "Where's your introduction/conclusion?"
- "Paragraphs are all over the place"
- "See me about organization"

CATEGORY 5: INTEGRATION & TRANSITIONS (10%)

What Teachers Look For:

Smooth quote integration, effective transitions between ideas and paragraphs, cohesive flow.

ADVANCED (9-10 points)

Quote Integration:

- All quotes introduced with signal phrases
- Quotes flow grammatically within sentences
- Context provided before quotes
- No "naked quotes" (dropped in without introduction)
- Perfect integration every time

Transitions:

- Sophisticated transitions between paragraphs
- Smooth connections within paragraphs
- Uses varied transition strategies (not just "also," "next")
- Transitions show logical relationships clearly
- Creates cohesive essay flow

Teacher Comments You'll See:

- "Excellent transitions"
- "Quotes integrated smoothly"
- "Perfect flow"
- "Seamless connections"

PROFICIENT (8 points)

Quote Integration:

- Most quotes introduced effectively
- Quotes usually flow grammatically
- Generally provides context
- Few "naked quotes"
- Competent integration

Transitions:

- Good transitions between paragraphs
- Adequate connections within paragraphs
- Uses standard transition words appropriately
- Transitions show relationships
- Generally cohesive

Teacher Comments You'll See:

- "Good transitions"
- "Quotes integrated well"
- "Smooth flow"
- "Nice connections"

DEVELOPING (7 points)

Quote Integration:

- Some quotes lack introduction
- Some quotes don't flow grammatically
- Limited context provided
- Several "naked quotes" present
- Awkward integration

Transitions:

- Weak transitions between paragraphs
- Limited connections within paragraphs

- Overuses simple transitions ("also," "next")
- Unclear logical relationships
- Choppy flow

Teacher Comments You'll See:

- "Introduce your quotes"
- "Need better transitions"
- "This quote doesn't flow"
- "Choppy—work on connections"

BEGINNING (0-6 points)

Quote Integration:

- Quotes dropped in without introduction
- Quotes don't fit grammatically
- No context provided
- Numerous "naked quotes"
- Poor integration throughout

Transitions:

- Missing transitions between paragraphs
- Abrupt jumps between ideas
- No transition words used
- Unclear relationships
- Disjointed essay

Teacher Comments You'll See:

- "Don't just drop quotes in"
- "Need transitions everywhere"
- "Ideas don't connect"
- "Very choppy"

CATEGORY 6: STYLE & VOICE (5%)

What Teachers Look For:

Academic tone, appropriate language, sentence variety, word choice precision.

ADVANCED (5 points)

- Sophisticated, engaging academic voice throughout
- Varied sentence structures create rhythm
- Precise, specific word choice
- Strong analytical verbs consistently used
- No casual language or contractions
- Present tense maintained (for literature)
- Third person maintained (no "I" or "you")
- Writing is clear, concise, and polished

Teacher Comments: "Excellent style," "Sophisticated writing," "Professional tone"

PROFICIENT (4 points)

- Clear academic voice maintained
- Some sentence variety
- Generally precise word choice
- Appropriate analytical language
- Mostly formal tone (minor lapses acceptable)
- Generally correct tense usage
- Mostly third person
- Writing is clear and competent

Teacher Comments: "Good style," "Clear writing," "Appropriate tone"

DEVELOPING (3 points)

- Inconsistent academic tone
- Repetitive sentence structures
- Vague or imprecise word choice
- Some casual language or contractions

- Tense shifts
- First or second person occasionally used
- Writing lacks polish

Teacher Comments: "Work on academic tone," "Vary sentences," "Avoid 'I' and 'you'"

BEGINNING (0-2 points)

- Inappropriate casual tone throughout
- Monotonous sentence structure
- Poor word choice
- Extensive casual language
- Serious tense problems
- Extensive use of "I" or "you"
- Writing is unclear or confusing

Teacher Comments: "Not academic writing," "Tone is too casual," "Serious style issues"

CATEGORY 7: GRAMMAR & MECHANICS (5%)

What Teachers Look For:

Sentence correctness, punctuation, spelling, basic grammar rules.

ADVANCED (5 points)

- No errors or extremely minor errors that don't distract
- Perfect sentence structure (no fragments or run-ons)
- Correct punctuation throughout
- No spelling errors
- Perfect subject-verb agreement
- Flawless mechanics

Teacher Comments: "Flawless grammar," "Well-edited," "Clean writing"

PROFICIENT (4 points)

- Few minor errors that don't impede understanding
- Generally correct sentence structure
- Generally correct punctuation
- Few spelling errors
- Mostly correct grammar
- Writing is clean

Teacher Comments: "Clean writing," "Minor errors only," "Well-edited"

DEVELOPING (3 points)

- Multiple errors that occasionally distract
- Some sentence structure problems
- Punctuation errors throughout
- Several spelling errors
- Some grammar mistakes
- Needs better editing

Teacher Comments: "Proofread carefully," "Fix grammar errors," "Sentence structure issues"

BEGINNING (0-2 points)

- Numerous errors throughout that seriously distract
- Major sentence structure problems
- Serious punctuation issues
- Many spelling errors
- Serious grammar problems
- Appears unedited

Teacher Comments: "Serious grammar issues," "Must proofread," "See writing center"

CATEGORY 8: CITATIONS & FORMAT (5%)

What Teachers Look For:

Proper citation format, Works Cited/References accuracy, document formatting.

ADVANCED (5 points)

- All citations perfect in chosen format (MLA/APA/Chicago)
- Works Cited/References flawlessly formatted
- Document format perfect (margins, spacing, headers)
- Every source properly documented
- Zero citation errors

Teacher Comments: "Perfect citations," "Excellent Works Cited," "Format is perfect"

PROFICIENT (4 points)

- Citations mostly correct with minor errors
- Works Cited/References mostly accurate
- Document format correct
- All sources documented (minor errors acceptable)
- Few citation mistakes

Teacher Comments: "Good citations," "Clean format," "Minor citation issues only"

DEVELOPING (3 points)

- Inconsistent citation format
- Works Cited/References has errors
- Some document formatting issues
- Some sources not properly documented
- Multiple citation errors

Teacher Comments: "Check citation format," "Fix Works Cited," "Inconsistent citations"

BEGINNING (0-2 points)

• Incorrect or missing citations

- Works Cited/References missing or seriously flawed
- Document formatting incorrect
- Many sources not documented
- Serious citation problems

Teacher Comments: "Missing citations," "No Works Cited," "Serious format issues"

TOTAL SCORE CALCULATION

Category	Points Possible	Your Points	Percentage
1. Thesis & Argument	20		%
2. Evidence & Support	20		%
3. Analysis & Interpretation	25		%
4. Organization & Structure	15		%
5. Integration & Transitions	10		%
6. Style & Voice	5		%
7. Grammar & Mechanics	5		%
8. Citations & Format	5		%
TOTAL	100		%

GRADE RANGES

A (90-100): Exceptional analytical essay demonstrating sophisticated thinking, thorough evidence, deep analysis, and polished presentation.

B (80-89): Strong analytical essay with clear argument, solid evidence, good analysis, and competent presentation.

C (70-79): Adequate analytical essay with identifiable argument, some evidence, surface-level analysis, and basic presentation.

D (60-69): Weak analytical essay with unclear argument, limited evidence, insufficient analysis, and presentation problems.

F (**Below 60**): Failing essay with serious deficiencies in argument, evidence, analysis, and/or presentation.

COMMON TEACHER FEEDBACK DECODED

What They Say → What It Means → What To Do

"Needs more analysis"

- Means: You're summarizing instead of interpreting
- Fix: After each quote, add 2-3 sentences explaining HOW it proves your point and WHY it matters

"Make thesis more specific"

- Means: Your thesis is too vague or broad
- Fix: Add specific details about your supporting points and what they reveal

"This is summary, not analysis"

- Means: You're retelling what happens instead of explaining meaning
- Fix: Replace "what happens" with "what it reveals" or "why it matters"

"Dig deeper"

- Means: Your analysis stays on the surface
- Fix: After basic analysis, ask "so what?" and "why?" again to reach deeper meaning

"Introduce your quotes"

- Means: You're dropping quotes without context
- Fix: Add signal phrases before every quote: "According to X..." or "As Y reveals..."

"Connect to thesis"

- Means: Your paragraph drifts off-topic
- Fix: Add sentences explicitly linking your point back to your thesis claim

"Avoid plot summary"

- Means: You're telling the story instead of analyzing it
- Fix: Replace narrative ("then this happens") with interpretation ("this reveals")

"Where's your evidence?"

- Means: You're making claims without proof
- Fix: Add 2-3 specific quotes from the text to support your claim

"Cite your sources"

- Means: Missing citations or wrong format
- Fix: Add (Author Page#) after every quote and create Works Cited page

"Too vague"

- Means: Your language is imprecise
- Fix: Replace general words with specific details and concrete examples

SELF-ASSESSMENT CHECKLIST

Use this before submitting to predict your grade:

THESIS & ARGUMENT
■ My thesis makes a specific, arguable claim (not obvious)
■ My thesis previews my three supporting points
■ My thesis explains significance ("so what?")
Every paragraph directly supports my thesis
☐ Predicted score:/20
EVIDENCE & SUPPORT
☐ I have 2-3 pieces of evidence per body paragraph
All evidence is relevant and strong
☐ All quotes have proper citations
Evidence is distributed throughout the text
Predicted score:/20
ANALYSIS & INTERPRETATION
☐ I have 2+ sentences of analysis per piece of evidence
☐ I explain WHAT, HOW, and WHY for each quote
☐ I interpret meaning (don't just summarize)
☐ I identify and explain techniques
☐ I avoid plot summary
Predicted score:/25
ORGANIZATION & STRUCTURE
☐ Strong introduction with context and thesis
Each body paragraph has clear topic sentence
Paragraphs follow logical order

■ Strong conclusion synthesizing ideas

Fredicted score:/15
INTEGRATION & TRANSITIONS
☐ All quotes introduced with signal phrases
☐ Smooth transitions between paragraphs
Cohesive flow throughout
☐ No "naked quotes"
Predicted score:/10
STYLE & VOICE
Academic, formal tone throughout
☐ Varied sentence structure
☐ No contractions or casual language
☐ Present tense for literature
☐ Third person (no "I" or "you")
Predicted score:/5
GRAMMAR & MECHANICS
☐ No run-ons or fragments
☐ Correct punctuation
☐ No spelling errors
Correct grammar throughout
Predicted score:/5
CITATIONS & FORMAT
☐ All citations in correct format (MLA/APA)
☐ Works Cited/References page included
☐ Proper document formatting
☐ All sources documented
Predicted score:/5
TOTAL PREDICTED SCORE:/100
PREDICTED GRADE:

ACTION PLAN FOR IMPROVEMENT

If You Scored 90-100 (A):

Maintain Excellence:

- Keep doing what you're doing
- Challenge yourself with more complex topics
- Help peers improve their writing
- Consider submitting work for publication

If You Scored 80-89 (B):

Push to Next Level:

- Focus on deepening analysis (most common gap)
- Work on sophistication of thesis
- Strengthen transitions between ideas
- Polish style and word choice

Priority Actions:

- 1. Add more "why this matters" analysis
- 2. Make thesis more specific/insightful
- 3. Vary sentence structure more

If You Scored 70-79 (C):

Build Stronger Foundation:

- Focus on evidence quantity (get to 2-3 per paragraph)
- Shift from summary to analysis
- Strengthen thesis specificity
- Improve quote integration

Priority Actions:

- 1. Add more evidence throughout
- 2. After each quote, write 3 sentences analyzing it
- 3. Rewrite thesis to be more specific
- 4. Add signal phrases before all quotes

If You Scored Below 70 (D-F):

Fundamental Rebuilding:

• Work with teacher or writing center

- Focus on one skill at a time
- Use templates and models
- Practice with shorter assignments first

Priority Actions:

- 1. Meet with teacher to clarify expectations
- 2. Use thesis formula from worksheet
- 3. Practice quote integration separately
- 4. Complete outline before drafting

WEIGHT BREAKDOWN: WHERE TO FOCUS YOUR EFFORT

Based on point values, prioritize:

1. Analysis (25%) ← MOST IMPORTANT

- This is where most students lose points
- Spend 40% of your writing time on analysis
- 2:1 ratio is non-negotiable

2. Thesis & Argument $(20\%) \leftarrow FOUNDATION$

- Get this right first—everything else follows
- Spend time crafting strong thesis before drafting

3. Evidence $(20\%) \leftarrow PROOF$

- More is usually better (within reason)
- Quality matters—select strongest quotes

4. Organization (15%) ← STRUCTURE

- Worth significant points
- Use outline to get this right

5. Everything Else (20% combined) ← POLISH

- Important but less weighted
- Don't neglect, but prioritize above items first

Remember: Most students lose points in ANALYSIS. If you focus on adding thorough, deep analysis that explains HOW and WHY (not just WHAT), you'll see the biggest grade improvements!