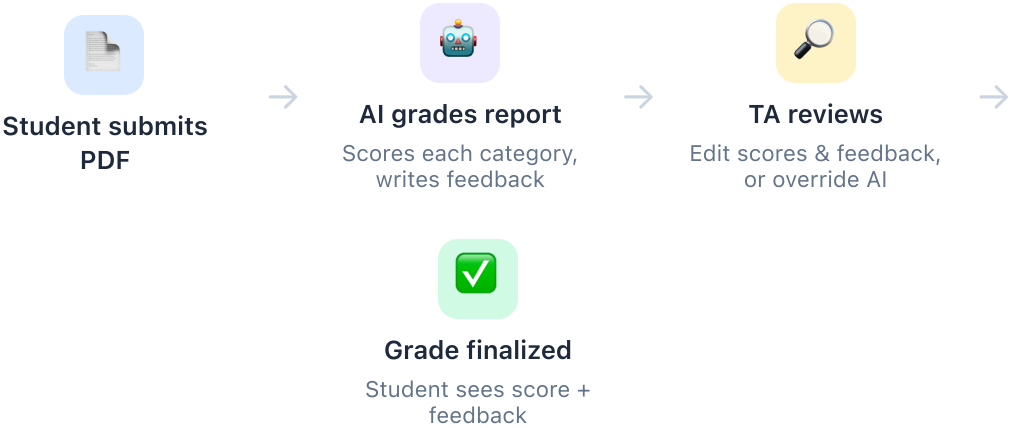


# Cosmo Grading Rubric & Workflow

Anime-cosmology report grading — AI suggests, TA finalizes

## Workflow

Every report goes through this pipeline. The TA always has final say.



## Point Distribution (100 total)

How the 100 points are split across the 5 categories.



## Student Rubric

Share this table with students so they know exactly what a strong report looks like.

CATEGORY	POINTS	WHAT WE'RE LOOKING FOR	HOW TO GET FULL MARKS
Anime Introduction	10	Show genuine familiarity with the anime or sci-fi work you chose.	Name the work, summarize the plot in 3+ sentences, and identify themes relevant to cosmology.
Cosmology-Anime Connection	30	Tie specific cosmological concepts to specific scenes in the anime.	Identify 3+ cosmological concepts with concrete scene references (e.g., episode, timestamp, or plot moment).

CATEGORY	POINTS	WHAT WE'RE LOOKING FOR	HOW TO GET FULL MARKS
Cosmological Concepts	30	Explain real cosmology accurately, going beyond what the anime shows.	<b>Explain 3+ concepts accurately</b> with depth beyond anime-level discussion. Course material, textbook depth, or quantitative examples are a bonus.
References	10	Cite credible cosmology/astronomy sources (journals, textbooks, NASA, ArXiv).	<b>3+ credible references</b> , properly cited. Wikipedia alone doesn't count; pair it with a credible source. Course lecture slides count as one reference.
Writing Quality	20	Write a well-structured, clear, and readable report.	<b>Clear structure</b> (intro, body, conclusion), <b>logical flow</b> between sections, and minimal grammar/spelling errors.

## Detailed Rubric

Each category is scored on fixed tiers. Between two tiers, always use the lower score.

### 1. Anime Introduction

10 pts

Does the student show genuine familiarity with the anime/sci-fi work?

- 10 | Names the work, summarizes plot in 3+ sentences, identifies cosmology-relevant themes
- 8 | Names the work, reasonable summary, but misses key themes
- 6 | Names the work with a brief 1-2 sentence summary
- 4 | Mentions the work but only superficial or inaccurate synopsis
- 2 | Barely mentions the work; no meaningful summary
- 0 | Missing or completely off-topic

### 2. Cosmology-Anime Connection

30 pts

Does the student tie specific cosmological concepts to specific scenes in the anime?

- 30 | 3+ cosmological concepts identified with concrete scene references
- 25 | 2 concepts with scene references, or 3+ concepts without specific scenes
- 20 | 1-2 concepts with some scene context
- 15 | 1 concept but the connection is vague or superficial

- 10 | Mentions cosmology in passing without tying it to the anime
- 5 | Attempts a connection but it is incorrect or incoherent
- 0 | No connection between the anime and cosmology

### 3. Cosmological Concepts

30 pts

*Does the student explain real cosmology accurately, beyond what the anime shows?*

- 30 | 3+ real concepts explained accurately, goes beyond anime-level discussion
- 25 | 2-3 concepts explained accurately with some depth
- 20 | 1-2 concepts explained correctly at a basic level
- 15 | Attempts to explain concepts but contains minor inaccuracies
- 10 | Contains significant inaccuracies or misunderstandings
- 5 | Mentions concepts by name only, with no real explanation
- 0 | No cosmological content beyond the anime discussion

### 4. References

10 pts

*Did the student cite credible cosmology/astronomy sources?*

- 10 | 3+ credible references, properly cited
- 8 | 2 credible references with proper citations
- 6 | 1 credible reference with proper citation
- 4 | References listed but none are credible or relevant
- 2 | Only non-credible references (anime wikis, blogs, AI summaries)
- 0 | No references

### 5. Writing Quality

20 pts

*Is the report well-structured, clear, and readable?*

- 20 | Clear structure (intro, body, conclusion), logical flow, minimal errors
- 16 | Mostly clear with minor structural issues or a few grammar errors
- 12 | Readable but disorganized or frequent grammar issues
- 8 | Poorly organized and difficult to follow
- 4 | Mostly incoherent but some content is discernible
- 0 | Incoherent or unreadable

## What Counts as a Credible Reference?

Course lecture slides count as one reference regardless of how many slide decks are cited.

Credible

- Peer-reviewed journal articles
- Textbooks (incl. Serjeant's *Observational Cosmology*)
- NASA / ESA / JAXA official pages
- ArXiv preprints
- Course lecture notes/slides
- PBS Space Time videos

Not Credible (on their own)

- Wikipedia (OK only as supplementary)
- Anime wiki pages
- Personal blogs
- AI-generated summaries

Overall Grade Scale

After summing the 5 category scores.

85 - 100  
Excellent

70 - 84  
Good

55 - 69  
Adequate

40 - 54  
Below expectations

0 - 39  
Insufficient

Platform Preview

This is what the grading interface looks like in Cosmo. The AI fills in category scores and feedback; the TA reviews and finalizes.

Cosmo

Dashboard

Assignments

Simulations

Grading

Users

Settings

葉健羽

ADMIN

Sign out

Grading

Review and grade student submissions

report 1

All (1)Export CSV

1 Graded0 Ungraded

Submissions (1)

report 1 · 100 pts

Alice Chen

alice@gapp.nthu.edu.tw

Submitted Feb 24, 9:46 PM

32/100

Graded by 葉健羽

Alice Chen

Submitted Feb 24, 2026, 9:46 PM

Graded by 葉健羽

Graded

test-cosmology-report.pdf

Click to open PDF in new tab

Grade AI: 32/100Re-run AI

AI CATEGORY BREAKDOWN

Anime Introduction

0/10

Cosmology-Anime Connection

0/30

Cosmological Concepts

20/30

References

0/10

Writing Quality

12/20

Total

32/100

Score (out of 100)

32

file:///Users/yehyu2004/Documents/cosmology-ta/docs/grading-workflow.html

4/5

## Grading Rules

**Fixed tiers only** — Scores must be one of the listed tier values. No in-between scores (e.g., no "22" for a 30-point category).

**When in doubt, round down** — If a submission falls between two tiers, always assign the lower tier's score.

**Score categories independently** — Don't let a weak intro drag down the concepts score, or vice versa.

**AI suggests, TA decides** — The AI pre-fills scores and feedback. The TA can accept, edit, or completely override before saving.

**Return option** — If a submission needs revision, the TA can return it to the student instead of grading. The student gets notified and can re-upload.

**Sig figs matter** — If a student reports a value like  $H_0 = 67.74823$  km/s/Mpc from a rough estimate, note the inappropriate precision.