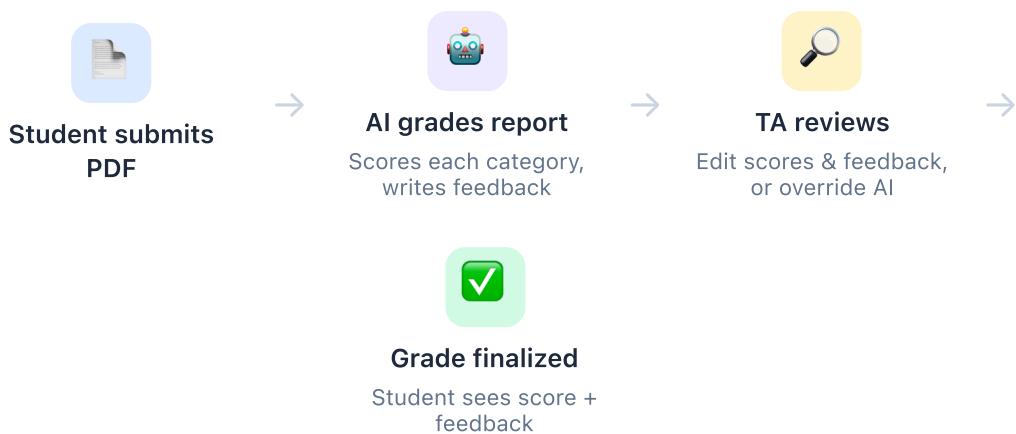


# Cosmo Grading Rubric & Workflow

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.



## 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

15 pts

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

- 15** | 3+ credible references, properly cited
- 12** | 2 credible references with proper citations
- 9** | 1 credible reference with proper citation
- 6** | References listed but none are credible or relevant
- 3** | Only non-credible references (anime wikis, blogs, AI summaries)
- 0** | No references

### 5. Writing Quality

15 pts

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

- 15** | Clear structure (intro, body, conclusion), logical flow, minimal errors
- 12** | Mostly clear with minor structural issues or a few grammar errors
- 9** | Readable but disorganized or frequent grammar issues
- 6** | Poorly organized and difficult to follow
- 3** | 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

## 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  $H_0 = 67.74823 \text{ km/s/Mpc}$  from a rough estimate, note the inappropriate precision.