Task 3 — Official Submission

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Class Slot: Friday — 6:00 PM to 9:00 PM

PART A — Research Questions

What new improvements were introduced in Gemini 3.0?

Gemini 3 (specifically, Gemini 3 Pro) brings major improvements in reasoning and benchmark performance.

It supports a huge context window: up to **1 million tokens** in input.

There's a "Deep Think" mode for more complex reasoning tasks, pushing its performance on hard benchmarks.

How does Gemini 3.0 improve coding & automation workflows?

It's strong in "agentic coding": Gemini 3 Pro is built to operate in multi-step workflows, using tool calls and planning

Google launched **Google Antigravity**, an agent-first development platform where Gemini agents can access your editor, terminal, and browser to independently plan, code, and validate tasks.

It supports "vibe-coding": you can give natural-language prompts and the model turns them into real, interactive apps, handling planning and code structure automatically.

How does Gemini 3.0 improve multimodal understanding?

The model is trained to handle multiple modalities (text, images, video, audio, PDF) in a unified way, which makes its understanding more holistic.

It has very strong visual reasoning — not just OCR, but deep understanding of document structure, diagrams, layouts, and complex image content

It also has enhanced **video reasoning**: it can process long-form video, understand rapid action, and maintain memory / recall across video contexts.

Name any two developer tools introduced (or improved) with Gemini 3.0.

Google Antigravity — a new agent-first IDE / development platform for autonomous agent-driven coding using Gemini 3

Gemini API / CLI — the Gemini API has new parameters (e.g., `thinking_level`) for deeper control, and supports structured outputs.

PART B — Practical Task

Task: Update Gemini model to 3.0 via Gemini CLI using the correct model selection command.

```
⊟ Update successful! The new version will be used on your next run.

> gemini chat --modal gemini-3.0-pro-preview
```