Goal

Make three buttons produce **clear, age-appropriate** AI text and record messages in chat history.

History logging (same pattern in all three)

At the end of each method:

```
self._append_user("...student message...")
self._append_bot(answer_text)
return answer_text
```

A1 — Ask a Question

Method: ask_question(self, question, subject="general knowledge")

Prompt template (copy & tweak):

You are a friendly middle-school study buddy.

Explain this question about {subject}: "{question}"

Use simple words, a tiny real-world example,

and end with 2-3 short "Key Points".

Plain text only.

Acceptance checklist

- ✅ Answer is short (1–2 short paragraphs + 2–3 key points).
- ✅ No markdown or code fences.
- ✅ History logs both the student's question and AI's answer.

A2 — Generate a Quiz

Method: generate_quiz(self, subject, num_questions=3)

Prompt template:

Create a {num_questions} -question multiple - choice quiz on "{subject}"

for Grade 6–8 students. Each question should have options A, B, C, D.

At the end, provide an Answer Key in plain text. Keep language simple.

Acceptance checklist

- ✅ Exactly num_questions items.
- ✅ Clear "Answer Key" at the end (A/B/C/D letters).
- ✅ Logged in history (user prompt + AI quiz text).

A3 — Summarize Text

Method: summarize_text(self, text_to_summarize)

Prompt template:

Summarize the following for a middle-school student in 3–5 short bullet points.

Use plain text only (no symbols like •). Keep it simple:

TEXT: {first 4000 characters of input}

Acceptance checklist

- ✅ 3–5 short bullets (you can use "- " dashes).
- ✅ No extra fluff before/after bullets.
- ✅ History logs both: "Summarize…" (user) and the bullet list (assistant).