

MCP Explorer: Interactive Learning Experience

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- 1 **Target Audience:**
2 High school students (ages 14–18), especially those with curiosity about AI but no prior technical
3 background. The material is designed for independent exploration by visual and interactive learners.
4
- 5 **Expected Duration:**
6 10–15 minutes (self-paced, interactive).
7
- 8 **Description of the Material:**
9 *MCP Explorer* (mcp-explorer.vercel.app/) is an interactive web application designed to introduce
10 high school learners to how AI assistants connect with the outside world through Anthropic’s *Model*
11 *Context Protocol (MCP)*.
12 The experience uses a friendly, narrative-driven story to explain what MCP is and why it matters.
13 Students explore clear side-by-side comparisons of AI assistants *with and without MCP*, and then
14 experiment hands-on by toggling different MCP servers linked to familiar high school situations such
15 as research help, homework scheduling, or solving math problems. Because the app connects to real
16 AI, students can directly observe how the assistant’s behavior changes as different MCP servers are
17 enabled or disabled.
18 Students then build their own “ideal AI assistant” by combining servers, test their understanding
19 through a narrative-based challenge and a short quiz, and earn a completion certificate. The activity
20 emphasizes clarity and accessibility, avoiding technical jargon while still showcasing both the benefits
21 and limitations of protocol-driven AI.
22 The learning app provides students with an engaging and memorable first encounter with responsible
23 AI concepts, centered around the principles of MCP.

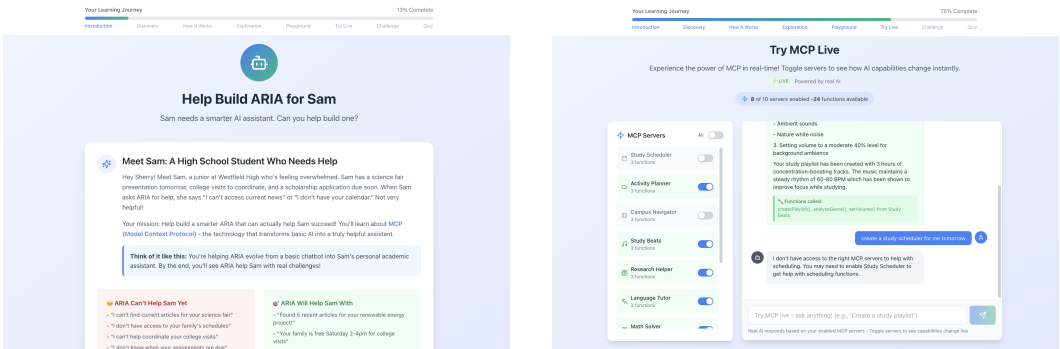


Figure 1: *MCP Explorer* interfaces: students embark on a narrative-based learning journey (left) and experiment with real AI by toggling common MCP servers tied to familiar high school scenarios (right) to gain a first-hand understanding of how MCP works.