

Core Skills Analysis

Computer Science / Coding

- Lottie has developed foundational skills in programming logic using Scratch, a block-based coding language suited for ages 8-16.
- Through regular practice, she has gained experience in computational thinking, particularly in problem-solving and debugging her projects.
- Lottie's participation in a university-level coding program shows early exposure to collaborative and technical environments beyond typical classroom settings.
- Her role in mentoring peers indicates she has not only learned coding but also understands concepts well enough to guide others, fostering leadership and communication skills.

Communication and Public Speaking

- Lottie regularly engages in 'show and tell' presentations, enhancing her ability to articulate her coding projects and ideas clearly to an audience.
- Her confidence in public speaking reflects social and emotional learning, including self-expression and peer interaction.
- Explaining technical work to others builds critical thinking as she distills complex concepts into understandable language.
- Collaborative discussions likely improve her active listening and feedback skills.

Tips

To further enrich Lottie's learning experience, encourage her to document her coding projects through multimedia blogs or video tutorials, blending creativity with technical skills. Organizing a small coding club where she can design challenges for peers fosters leadership and deepens conceptual understanding. Introducing her to real-world problem-solving scenarios where she codes solutions can also contextualize her skills. Additionally, practicing structured public speaking through debates or storytelling tied to technology themes can strengthen her communication prowess.

Book Recommendations

- [Super Scratch Programming Adventure!](#) by The LEAD Project: An engaging, illustrated guide that teaches kids to code with Scratch through exciting game projects.
- [Hello Ruby: Adventures in Coding](#) by Linda Liukas: A charming storybook introducing young learners to programming concepts through storytelling and hands-on activities.
- [Speak Up with Confidence: How to Prepare, Learn, and Deliver Effective Speeches](#) by Jack Valenti: A kid-friendly guide to building public speaking skills and overcoming stage fright.

Learning Standards

- ACMSP228 - Represent data in tables and describe the relationships between categories.
- ACTDIP023 - Design and implement a digital solution with user interfaces that respond to events.
- ACSIS124 - Represent data logically and interpret flowcharts and computer programs.
- ACELY1703 - Plan, rehearse and deliver presentations, selecting and sequencing appropriate content and multimodal elements.

Try This Next

- Create a worksheet on debugging common Scratch coding errors with step-by-step hints.
- Develop a quiz where students explain the logic behind simple Scratch scripts to test comprehension.
- Set a writing prompt for Lottie to describe her favorite coding project and the challenges she

overcame.

- Design a peer mentoring role-play scenario where Lottie practices teaching a new Scratch concept.