Name

Age  Grade  Club

Project (i.e. knit scarf, fuse bead magnet, etc.)

Parents best contact information:

Category (circle one): Kit or Original Design

Design/pattern is attached (Required)

Below or attached, the participant should write a paragraph explaining how they made their project. The paragraph should include one sentence minimum for each of the four components of computational thinking (See other side). Use one of the questions listed below each category as prompts if needed.

*Cloverbud does not require the paragraph, but a simple explanation would be helpful*

Paragraph explaining project:

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Pattern Recognition (Look for repeating sequences)
- How did you use patterns in your pixelation project?
- Are there patterns in your project?
- Do any patterns repeat?
- Is your project symmetrical or asymmetrical?

Decomposition (Break the problem down)
- How did you break down the project from beginning to end?
- Were there parts of your project that were more difficult than others?
- When did you break down a large part of your project into smaller steps?

Algorithmic thinking (Use step by step directions)
- How did you use step by step instructions in the kit?
- How did you organize the step-by-step directions you used in your original project?
- Did you skip any steps or change the order? What was the result?
- If someone else wanted to make your project, what instructions would you give?

Abstraction (Focus on important parts and remove unnecessary parts)
- What are the most important parts of your project?
- Were there any unnecessary parts of your project?
- Was there anything you eliminated to make the project easier or cleaner?
- How did you organize the project while you worked on it?
- Did you use abstraction in your project?

Example Paragraph for 4-H contestants:
I made my own house from Legos. I used patterns by using a rotating pattern of different sized blocks to make the walls stronger. I used decomposition to break my projects into steps. First I designed the house with drawings, then I used the drawings to help me build my project from Legos. I started with the house, then added details outside like the yard and mailbox. I used algorithmic thinking by organizing the Legos I would need on a tray before I started a new step. I used the element of abstraction when I decided not to make the trampoline in the yard because wanted the focus to be the house and the trampoline would have been too big. I am proud of my Lego House.

Example Paragraph for Cloverbud Contestants:
I made a perler bead Mario. I used a pattern I found online. I put all the perler beads on the board in the right order. When I finished, my grandma ironed it for me. We added a keychain after it was cooled off. I loved making my Perler bead keychain.