Adapted Math Problem for ELLs STEP 1-3

(Adaptation include: simplified grammar and vocabulary, shortened sentences, ‘white-space’ and use of first language, and bolded key vocabulary and phrases)

Chapter 1
Grandma wants a flower garden.

This is her first design.

When she add more stones, it looks like this.

1. What is the rule for Grandmother’s design?
2. Draw a graph to show the trend line for this rule.
3. What does the design look like for 5 stones (draw a picture).

Chapter 2:
Grandmother changed the design. Her new design rules is:

Number of flowers = Number of stones X 4 + 2

1. How is the rule the same?
2. How is the rule different?
3. What will the trend line look like?
4. Draw a picture to show the new design.
5. Draw a graph to show the trend line for this rule.

Chapter 3:
Grandmother changed the design. Her new design rule is:

Number of flowers = Number of stones X 2 + 6

1. How is the rule the same?
2. How is the rule different?
3. What will the trend line look like?
4. Draw a picture to show the new design.
5. Draw a graph to show the trend line for this rule.

Chapter 4:

Grandmother wants to plan 98 flowers.

1. How many stones would she need for each design/rule?
2. Which design/rule will use the smallest (least) number of stones. Prove your thinking.

Extension: Can you think of a design/rule that would use less stones. Show your thinking.