

The Grilled Cheese Protocol

A complete flowchart example for students to practice reading and building in Activity 2, Part 3. Adapted for 5th-grade readability. Key learning: the decision loop — the process repeats until the condition is met.

THE GRILLED CHEESE PROTOCOL

[START — oval] You want a grilled cheese sandwich.

[ACTION — rectangle] Put butter on one side of two slices of bread.

[ACTION — rectangle] Place one slice butter-side DOWN in a cold pan.

[ACTION — rectangle] Add cheese slices on top of the bread in the pan.

[ACTION — rectangle] Place the second slice on top, butter-side UP.

[ACTION — rectangle] Turn the stove to medium heat.

[DECISION — diamond] Is the bottom bread golden brown and crispy?

NO path: Wait 30 seconds. Go back to CHECK.

YES path: Continue to next step.

[ACTION — rectangle] Use a spatula to FLIP the sandwich.

[DECISION — diamond] Is the cheese melted and the second side golden?

NO path: Wait 30 seconds. Go back to CHECK.

YES path: Continue to next step.

[ACTION — rectangle] Turn off the stove. Move sandwich to a plate.

[ACTION — rectangle] Slice diagonally.

[END — oval] Eat and enjoy!

**The loop: Both CHECK diamonds send the NO path back to wait and re-check.
This is the core of a loop: keep repeating until the answer changes to YES.**