**Redesigning the Waterfall Model**

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**Explanation**

The waterfall model, while widely used, has inherent shortcomings:

1. **Rigidity:** Each phase must be completed before moving to the next, leaving no room for iterative feedback.
2. **Late Testing:** Testing occurs only after development is complete, making it costly to fix errors.
3. **Limited Flexibility:** Changes in requirements are difficult to accommodate once development begins.

**Proposed Adjustments:** To address these shortcomings, the modified waterfall model introduces:

* **Feedback Loops:** Allows iterative reviews between phases to validate and refine work before progressing.
* **Risk Assessment in Planning:** Helps identify and mitigate risks early, reducing potential project delays.
* **Incremental Testing in Construction:** Encourages testing in smaller, manageable increments to catch issues early.

**References**

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