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**Detail Distribution Rules:**
- Each bullet must contain AT LEAST one verifiable mathematical detail
- Avoid vague statements like "worked on problems" - specify WHICH problems and results
- Replace "studied math" with "completed 5 quadratic equation problems, solved 4 correctly"
- Instead of "improved understanding" use "increased quiz score from 70% to 85%"

===== STRUCTURE REQUIREMENTS =====
**3. MATHEMATICAL CONTINUITY SYSTEM:**
**Learning Phase Evolution:**
Every mathematical element MUST show progression from previous batches:

**Natural Learning Progression Examples:**
- **Conceptual Phase:** "I need to understand what derivatives mean..."  

[More examples]

===== CONFLICT & RESOLUTION TRACKING =====
**Mandatory Mathematical Conflict Elements:**
Each batch must include at least 2-3 mathematical challenges with:
- **Clear Stakes:** what's at risk (exam grade, assignment deadline, course prerequisite)
- **Binary Decisions:** chose Method A over B, applied Theorem X vs Y, used algebraic vs geometric approach
- **Measurable Outcomes:** improved accuracy by X%, reduced solution time by Y minutes, raised grade from B to A
- **Specific Struggles:** which step caused confusion, what concept was misunderstood, where calculation went wrong

**Mathematical Conflict Types to Rotate:**
- Conceptual misunderstandings with specific confusion points
- Calculation errors with exact mistake locations
- Method selection dilemmas with pros/cons
- Time pressure challenges with specific deadlines
- Prerequisite knowledge gaps with missing concepts
- Application difficulties with real-world connections

===== CONTENT DISTRIBUTION STRATEGY =====
**Per Batch Requirements:**
- 2-3 bullets: Problem-solving activities with specific equations/solutions
- 1-2 bullets: Current learning status with measurable metrics
- 1 bullet: Exact temporal anchor (specific date/time)
- 4-6 bullets: Mathematical activities with verifiable outcomes
- 2-3 bullets: Learning decisions with specific alternatives considered
- 1 bullet: **Preference Statement:** implicitly showing learning preferences
- Rest: Using remaining labels with concrete mathematical details

**Adaptive Batch Planning:**
Each batch should organically focus on what makes sense for that learning phase:  

[More examples]

===== NATURAL MATH CONVERSATION FLOW =====
Each bullet should represent realistic user-AI interactions:

**Problem-Solving Requests:**
[examples]

**Concept Clarification:**
[examples]

**Solution Verification:**
[examples]

**Method Explanation:**
[examples]

===== QUALITY STANDARDS =====
**Chronological Consistency:**
- Batch 1 = learning beginning/foundation phase
- Batch <num_batches> = evolved understanding with clear mathematical progression
- Each batch logically follows the previous learning timeline

**Mathematical Authenticity:**
- Include specific mathematical details: equation types, theorem names, calculation methods  

[More examples]

**User Authenticity:**
- Keep user personality consistent with provided profile  

[More examples]

**Learning Realism:**
- Follow realistic mathematical learning patterns  

[More examples]

**Specificity Checklist:**
- Every equation has specific coefficients and variables  

[More examples]

===== EXECUTION NOTES =====
- Use plain, mathematical language throughout
- Include realistic mathematical specificity: complete equations, exact values, specific theorems
- Make every bullet contribute to the overarching mathematical story
- Ensure uniform mathematical detail quality across ALL batches

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