**🎓 Student-Oriented Needs Assessment Questions**

*(Targeted toward students who experience essay-based grading and might interact with an AI-assisted grading system)*

**1. Perception of AI in Grading**

**Primary Question:**

“How would you feel if an AI system helped check your essays but your teacher still gives the final grade?”

**Assumption:**  
Students may be wary of automation grading their work, fearing misinterpretation or lack of nuance.

**Claim:**  
Clarifying that teachers still have final control may help students feel more comfortable with AI involvement.

**Backup Question:**

“If teacher involvement is guaranteed, would you still feel uncomfortable? What would help make it more acceptable?”

**2. Concerns on Fairness and Bias**

**Primary Question:**

“What concerns do you have about fairness when an AI helps grade essays or written outputs?”

**Assumption:**  
Students may feel AI cannot understand context, emotion, or creativity in their writing.

**Claim:**  
Modern AI systems can provide explainable results, and any biases can be reduced through ongoing teacher calibration.

**Backup Question:**

“If fairness isn’t your main concern, what other issues would make you hesitate in trusting such a system?”

**3. Transparency and Feedback**

**Primary Question:**

“Would you want to see how the AI evaluated your essay (e.g., comments, scoring breakdown)? Why or why not?”

**Assumption:**  
Students prefer visibility in grading systems so they can understand how they were assessed.

**Claim:**  
AI systems can be designed to provide structured feedback — grammar, coherence, relevance — as learning tools.

**Backup Question:**

“If transparency isn’t important to you, what kind of feedback matters most when reviewing your graded work?”

**4. Turnaround Time and Speed**

**Primary Question:**

“Would faster grading and feedback through AI make you feel more confident or anxious about your results?”

**Assumption:**  
Students might appreciate faster grading but may also doubt the accuracy if it’s too quick.

**Claim:**  
AI-assisted systems offer same-day feedback while still being reviewed by the teacher, balancing speed and accuracy.

**Backup Question:**

“If speed isn’t a major benefit to you, what matters more when receiving your grades — accuracy, feedback, or teacher interaction?”

**5. Trust in Technology**

**Primary Question:**

“What would make you trust an AI grading assistant to be fair and accurate with your essays?”

**Assumption:**  
Students need reassurance that the system isn't just a black box and that it reflects human-like fairness.

**Claim:**  
Providing students with scoring breakdowns, teacher validation, and clear rules improves trust.

**Backup Question:**

“If you already trust technology in other areas, what makes grading different for you?”

**6. Desire for Improvement Tools**

**Primary Question:**

“Would you use an AI grading assistant as a practice tool to check and improve your essays before final submission?”

**Assumption:**  
Students may want tools to self-assess or revise work but don’t want to be penalized by rigid automation.

**Claim:**  
The system could include a ‘self-check’ or draft mode where feedback is given without affecting final grades.

**Backup Question:**

“If not for practice, what other ways could this technology support your learning?”

**7. Comparison with Human Grading**

**Primary Question:**

“Have you experienced unclear or unfair human grading before? Do you think AI might do better or worse?”

**Assumption:**  
Some students may have had subjective or inconsistent grading from teachers.

**Claim:**  
AI can introduce more standardization and objectivity, especially in grammar, coherence, or rubric-based areas.

**Backup Question:**

“If you don’t think AI is more reliable, what would make grading feel more consistent to you?”