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# Correlation between Students' Entry Characteristics and Teachers' Task Performance in Senior Secondary Schools, Education District III, Lagos State, Nigeria

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## **Abstract**

## **Original Research Articles**

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This study examines the correlation between students' entry characteristics and teachers' task performance in senior secondary schools in Education District III, Lagos State, Nigeria. The purpose was to determine the relationship between students' prior achievement and teachers' instructional delivery, as well as the correlation between students' academic background and teachers' classroom management. A correlational survey design was used. The sample included 365 students and 19 teachers, selected using stratified random sampling to ensure proper representation. Data was collected via a questionnaire and analyzed using descriptive and inferential statistics, including Pearson correlation. The key findings revealed a significant positive correlation between students' prior achievement and teachers' instructional delivery ( $\beta$ =.352, p<0.05). There was also a significant positive correlation between students' academic background and teachers' classroom management ( $\beta$ =.479, p<0.05). The conclusion is that what students bring to school directly influences how teachers perform their tasks, with implications for professional development and policy aimed at improving educational outcomes.

**Keywords:** Instructional Planning, Classroom Management, Prior Academic Achievement.

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#### Introduction

Teachers' task performance encompasses the core professional responsibilities through which educators facilitate effective learning. These responsibilities include instructional planning and delivery, curriculum implementation, classroom organization, assessment of learner progress, and the provision of constructive feedback. Collectively, these functions shape instructional quality and influence student learning outcomes. Recent evidence, however, indicates a gradual decline in teacher task performance within Nigerian secondary schools, frequently linked to inadequate instructional

resources, insufficient professional development, and systemic shortcomings in educational planning (Adeniji, 2025). Such constraints weaken teachers' effectiveness and compromise students' academic advancement.

Simultaneously, students enter secondary schooling with a diverse range of entry characteristics that significantly shape their readiness to learn. These characteristics include prior academic preparation, cognitive abilities, socio-economic background, motivation, age, gender, and other demographic attributes (Oladipo & Adeosun, 2025). This diversity presents teachers with complex pedagogical and

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managerial demands. In classrooms where learners display wide disparities in academic preparedness, socio-cultural background, or cognitive development, teachers must adopt differentiated instructional strategies and enhanced classroom management techniques to foster engagement and ensure equity in learning opportunities (Adeniji, 2025).

The relationship between students' characteristics and teachers' task performance has therefore emerged as an important focus of contemporary educational research. Empirical evidence suggests that the demographic and cognitive composition of a learner group may influence a teacher's ability to implement curriculum effectively. For instance, heterogeneous levels of prior achievement may intensify classroom management pressures, complicate instructional pacing, and heighten the need for individualised feedback, thereby affecting the overall quality of teacher task execution (Adeniji, 2025). Conversely, when instructional strategies are deliberately adapted to the specific entry characteristics of students, improvements in learner engagement, behavioural regulation, and academic performance are frequently observed.

Global scholarship offers robust evidence of such associations. Research conducted in China has shown that nurturing teacher-student relationships are positively correlated with improved learner performance, underscoring the role of teacher efficacy in shaping student achievement (Zhang et al., 2025). In the United States, longitudinal evidence demonstrates that high teacher expectations exert persistent positive effects on student motivation and test performance (Halimi et al., 2025). European studies similarly reveal that teachers' academic recommendations often align with consistent student performance patterns (Glock et al., 2024). Within Africa, studies indicate that teachers' pedagogical competence predicts student success (Oladipo & Adeosun, 2025), while in Nigeria, teachers' professional traits have been found to significantly influence student performance in Lagos State (Adeosun, 2025).

Despite this, other studies present divergent findings. Research in China suggests that negative teacher

student relationships can hinder student autonomy and reduce academic outcomes (Lei et al., 2022). Similarly, a mixed-methods study in the United States found no direct association between students' perceptions of teacher-student relationships and academic achievement (Gholson, 2022). Evidence from Europe shows that students' personal challenges, such as poor work-life balance can impair academic performance independently of teacher behaviour (Trentepohl et al., 2023). Furthermore, African studies reveal that school resource inadequacy can diminish both teacher effectiveness and learner motivation (Omodan & Ikwu, 2021), while in Nigeria, some research attributes academic failure more to student attitudes than to teacher shortcomings (Adewunmi, 2021). These inconsistencies underscore the complexity of the relationship between learner characteristics and teacher performance and highlight the need for context-specific analysis.

Although previous studies in Nigeria and Lagos State have examined related constructs, a notable gap persists: no published research has specifically investigated the correlation between student entry characteristics and teachers' task performance within Lagos State Education District III. This district, distinguished by its demographic diversity and concentration of secondary schools, represents a unique micro-context for interrogating how students' cognitive. and socio-economic demographic, profiles interact with teachers' instructional and managerial responsibilities (Adeosun, Adewunmi, 2021).

Against this backdrop, the present study seeks to address this gap by providing a focused, evidence-based examination of the relationship between students' entry characteristics and teachers' task performance in senior secondary schools within Lagos State Education District III. Findings from this inquiry are expected to contribute meaningfully to educational planning, policy formulation, and teacher development initiatives.

## **Literature Review**

Students enter school with a constellation of dispositional, cognitive, and socio-contextual attributes collectively termed entry characteristics that shape how they engage with instruction and

adapt to new learning environments (Jenert & Brahm, 2021). These characteristics encompass prior exposure to academic resources, socio-economic background, cognitive preferences, gender identity, and motivational dispositions, all of which influence how students interact with peers, negotiate learning tasks, and respond to instructional expectations (Shagour et al., 2020; Sandsør et al., 2021). Understanding such diversity is fundamental to designing inclusive curricula and tailoring pedagogical scaffolds that offer equitable access to learning opportunities (Veidemane et al., 2021). Teachers who ignore these initial differences risk delivering generic instruction that inadvertently disadvantages students whose preparation does not align with normative assumptions (Klasik & Strayhorn, 2018).

A critical dimension of student entry characteristics is prior achievement, which provides the clearest empirical indicator of a learner's existing competencies and potential areas of difficulty (Geiser & Santelices, 2007). Prior academic performance predicts study habits, cognitive readiness, and the likelihood of future success, making it a central diagnostic tool for instructional planning (Matt et al., 1991; Hein et al., 2013). In classrooms characterised by wide achievement disparities, teachers must adopt differentiated instructional approaches to avoid exacerbating misalignment performance gaps; between instructional demands and students' existing knowledge frequently results in boredom for advanced learners and disengagement among those who struggle (Kowski, 2013). Analysing prior performance therefore enables educators to identify learners needing remediation or enrichment and supports early identification of students at risk of academic decline or dropout (Soland, 2017; Meijer et al., 2018).

Students' academic background, including the quality of prior schooling, curricular exposure, and the academic culture of previous institutions, also shapes their expectations, learning routines, and responses to classroom norms (Chingos, 2018). Those transitioning from highly structured or academically rigorous environments often display behavioural and cognitive orientations that differ markedly from peers with less supportive

educational histories (Clagett, 1991; Haas & Hadjar, 2019). Teachers who are aware of these variations manage classroom interactions more effectively by adjusting expectations, clarifying behavioural norms, and providing transparent instructional routines that accommodate differing academic socialisation experiences (Shaqour et al., 2020). Such informed adjustments promote equity and strengthen the continuity of learning across diverse student cohorts (Jenert & Brahm, 2021).

Within this conceptual frame, teacher task performance is a central determinant of student outcomes. It encompasses core professional responsibilities such as lesson planning, instructional organisation, pedagogical classroom clarity, communication, and monitoring of student progress (Anisah et al., 2020; Anggraeni, 2021). High-quality task performance depends on teachers' expertise, motivation, and emotional stability, all of which shape their ability to maintain orderly classrooms and facilitate meaningful learning experiences (Suryani et al., 2020). Effective performance not only supports immediate academic attainment but also strengthens the long-term instructional capacity of the school system (Gabriel & Allington, 2012).

Two components of teacher task performance, instructional delivery and classroom management are especially relevant to the present study. Instructional delivery concerns the strategic organisation of teaching methods, content presentation, and learning activities that promote comprehension and engagement (Babah et al., 2020). Evidence demonstrates that clear, sequential, and interactive instructional approaches enhance cognitive processing, retention, and task completion, poorly whereas monotonous or scaffolded instruction impedes comprehension and fosters disengagement (Tomaszewski et al., 2022; Tutal, 2023). In heterogeneous classrooms, instructional responsiveness becomes essential, as teachers must adjust pacing, modality, and interaction patterns to match divergent academic histories and achievement levels (Colclasure et al., 2022).

Classroom management, on the other hand, refers to the routines and behavioural structures that sustain psychological safety and minimise disruptions (Egeberg et al., 2016, Gbenu, et al 2022). Effective

management establishes predictable norms and smooth daily transitions, enabling students to concentrate on academic tasks rather than behavioural uncertainty (Thornton et al., 2021). Poorly managed environments reduce instructional increase behavioural incidents, compromise the effectiveness of even well-designed lessons (Angelo et al., 2023). Emerging evidence suggests that teachers' management practices must be attuned to students' prior experiences and behavioural expectations, as uniform approaches often fail in heterogeneous classrooms (Altunova & Kalman, 2020). Calibrating management strategies to students' academic backgrounds thus becomes essential for maintaining productive classroom climates (Egeberg et al., 2016).

Collectively, the conceptual framework positions students' entry characteristics including prior achievement and academic background as foundational inputs that shape teacher task performance through their influence on instructional delivery and classroom management. By acknowledging the mutual adjustments required between learners' academic histories and teachers'

pedagogical actions, the framework underscores the dynamic and interdependent nature of the teaching—learning process.

The study is anchored on the understanding that students enter secondary school with diverse entry characteristics, including prior academic achievement, socio-economic background, cognitive readiness, motivation, and academic history which strongly shape how they respond to instruction (Jenert & Brahm, 2021; Shaqour et al., 2020). These characteristics influence learning readiness and determine the level of pedagogical adjustments teachers must ensure effective instruction.

Teacher task performance comprising instructional delivery, classroom management, assessment is viewed as an adaptive process shaped by student inputs (Anisah et al., 2020). When classrooms contain students with widely varying prior achievement and academic backgrounds, teachers must modify instructional strategies, pacing, behavioural expectations, and engagement routines to maintain learning efficiency (Colclasure et al., 2022; Egeberg et al., 2016).

Table 1: Variables and their Measurable Indicators (Student Entry Characteristics)

|     | STUDENT ENTRY CHARACTERISTICS                           |  |                                |  |  |  |  |
|-----|---|--|--------------------------------|--|--|--|--|
| S/N | Variable  | Conceptual Definition                        | Measurable Indicators          |  |  |  |  |
| 1   | Prior   | This refers to the documented level of       | Previous Test scores           |  |  |  |  |
|     | Academic  | knowledge, skills, and competencies a        | Grade Point Average (GPA):     |  |  |  |  |
|     | Achievement student has attained in formal education Ag |  | Aggregate score from previous  |  |  |  |  |
|     |   | before entering a new course or educational  | courses or years of study.     |  |  |  |  |
|     |   | stage.                                       |                                |  |  |  |  |
| 2   | Socio-  | The social standing or class based on        | - Estimated family income      |  |  |  |  |
|     | Economic  | education, income, and occupation.           | Availability of home learning  |  |  |  |  |
|     | Status (SES) re   |  | resources (books, computer,    |  |  |  |  |
|     |   |  | internet).                     |  |  |  |  |
|     |   |  | - Parental education level and |  |  |  |  |
|     |   |  | occupation.                    |  |  |  |  |
| 3   | Cognitive   | Cognitive abilities refer to the core mental | Verbal Comprehension and       |  |  |  |  |
|     | Abilities   | skills and processes involved in acquiring   | Perceptual Reasoning           |  |  |  |  |
|     |   | knowledge, manipulating information, and     |                                |  |  |  |  |
|     |   | reasoning.                                   |                                |  |  |  |  |
| 4   | Motivation  | Motivation is the driving force behind a     | -Intrinsic Motivation and      |  |  |  |  |
|     |   | student's engagement with learning tasks     | ·Extrinsic Motivation          |  |  |  |  |
|     |   |  |                                |  |  |  |  |

| 5 | Health and<br>Emotional<br>Stability | Health refers to a state of complete physical well-being. Emotional Stability is a personality trait characterised by predictability, calmness, and resilience in  | Physical Health: Number of school days missed due to illness.   |
|---|--------------------------------------|--|---|
| 6 | Nutrition                            | the face of stress.  Nutrition refers to the intake of dietary nutrients necessary for health, growth, and development. Adequate nutrition is a prerequisite for optimal physiological and neurological functioning.       | · Dietary Quality: Frequency of consumption of fruits, vegetables, whole grains, and protein sources versus high-sugar/fat snacks. · Food Security: Access to sufficient, safe, and nutritious food,.   |
| 7 | Demographic<br>Factor                | Demographic factors are the background characteristics that define a student's position within the social structure. They are often fixed attributes that correlate with significant social experiences and opportunities. | Age: Chronological age at school entry.  · Gender: Male/Female/Non-binary (as per data collection categories).  ·Ethnicity/Race: Cultural and racial backgroundHome Language: First language spoken at home.  · Geographical Location: Urban, suburban, or rural residence. |

# Source Researcher Concept, 2025

Table 2: Variables and their Measurable Indicators (Teachers' Task Performances)

|     | TEACHERS' TASK PERFORMANCE.        |   |                                    |  |  |  |  |
|-----|------------------------------------|---|------------------------------------|--|--|--|--|
| S/N | S/N Variable Conceptual Definition |   | Measurable Indicators              |  |  |  |  |
| 1   | Lesson Plans                       | Proficiency in planning, presentation, and  | - Classroom observation scores on  |  |  |  |  |
|     | and                                | instructional strategy.                     | technique Ability to stimulate     |  |  |  |  |
|     | Instructional                      |   | student interest.                  |  |  |  |  |
|     | Delivery                           |   | - Quality of notes.                |  |  |  |  |
| 2   | Classroom                          | Ability to establish a conducive, orderly   | - Overall student conduct during   |  |  |  |  |
|     | Management                         | learning environment Classroom              | lessons.                           |  |  |  |  |
|     | and Discipline                     | observation scores on management            |                                    |  |  |  |  |
|     |                                    | Frequency of disciplinary incidents.        |                                    |  |  |  |  |
| 3   | Record Keeping                     | Systematic and accuracy of documentation,   | -Accuracy completeness of mark     |  |  |  |  |
|     | and                                | organization and storage of information.    | books                              |  |  |  |  |
|     | Documentation                      |   | -Entered correctly and timely with |  |  |  |  |
|     |                                    |   | clear description for assessment   |  |  |  |  |
| 4   | Assessment and                     | Regularity, fairness, and constructiveness  | - Timeliness in marking and        |  |  |  |  |
|     | Evaluation                         | of evaluating progress.                     | recording scores.                  |  |  |  |  |
|     |                                    | Frequency and quality of tests/assignments. | - Quality of feedback given to     |  |  |  |  |
|     |                                    |   | students.                          |  |  |  |  |
|     |                                    |   |                                    |  |  |  |  |

Source Researcher Concept, 2025

#### Theoretical Framework.

The Systems Theory, developed by Ludwig Von Bertalanffy, explains how the behaviour of any organisation emerges from the interaction of its interconnected parts rather than from isolated elements (Drack & Schwarz, 2010). In schools, this framework captures the interdependence between students, teachers, and institutional structures, highlighting how changes in one component generate system-wide effects (Hieronymi, 2013). Although criticised for overlooking micro level behaviours in complex social environments (Haag & Matschonat, 2001; Finkelstein, 2005), the theory remains valuable for understanding how student entry characteristics act as inputs that influence teachers' instructional decisions. classroom management, and overall task performance (Kainz et al., 2017; Wrigley, 2019). By viewing teacher performance as a systemic response shaped by learners' achievement. socio-cognitive prior readiness, and behavioural tendencies, Systems Theory provides a coherent lens for analysing the interconnected variables in this study and for explaining their effects within the educational environment of Lagos State (Tramonti et al., 2019; Jerab, 2025).

#### Statement of the Problem

Despite sustained public investment in education, a persistent mismatch remains between students' entry characteristics and teachers' task performance, leading to disengagement, inefficient instructional delivery, and declining academic outcomes (Umar & Muhammad, 2024). When instruction is not adapted to learners' prior knowledge and achievement levels, students particularly those with weaker academic foundations are further disadvantaged, reinforcing a cycle of poor performance (Idris & Usman, 2022).

Classroom management also becomes problematic when teachers are unable to respond effectively to diverse learning backgrounds, resulting in disruptive behaviours and deteriorating instructional quality (Oladipo & Adeosun, 2025). Although previous studies have examined teacher characteristics, student performance, and contextual factors, they have not jointly addressed these variables within the metropolitan setting under study, nor have they isolated the instructional tasks most affected (Adeosun, 2025; Adewunmi, 2021; Umar & Muhammad, 2024; Idris & Usman, 2022). This study therefore addresses this gap by employing a focused, questionnaire based methodology to generate context specific quantifiable evidence, on how student entry characteristics shape teacher task performance in Senior Secondary Schools, Education District III, Lagos State.

## **Research Questions**

- 1. What is the correlation between students' prior achievement and teachers' instructional delivery in senior secondary schools in Education District III, Lagos State, Nigeria?
- 2. What is the correlation between students' academic background and teachers' classroom management in senior secondary schools in Education District III, Lagos State, Nigeria?

## **Research Hypotheses**

H<sub>O1</sub>: there is no significant relationship between students' prior achievement and teachers' instructional delivery in senior secondary schools in Education District III, Lagos State, Nigeria.

H<sub>O2</sub>: there is no significant relationship between students' academic background and teachers' classroom management in senior secondary schools in Education District III, Lagos State, Nigeria.

Table 3: Internal Consistency Reliability Result

| S/N | Variables  | Number of<br>Items | Cronbach's<br>Alpha | Composite<br>Reliability |
|-----|--|--------------------|---------------------|--------------------------|
| 1   | Correlation between students' prior achievement and teachers' instructional delivery in senior secondary schools in Education District III, Lagos State. |                    | 0.78                | 0.81                     |
| 2   | Correlation between students' academic background and teachers' classroom management in senior secondary schools in Education District III, Lagos State. | 10                 | 0.82                | 0.85                     |

Source: Field Survey, 2025

The table shows the reliability of the research instruments, Reliability coefficients above 0.70 are considered acceptable, while scores above 0.80 are often seen as good or high. Therefore, the reliability instrument used in this study is hereby considered acceptable.

#### Results

**Research Question one:** What is the correlation between students' prior achievement and teachers' instructional delivery in senior secondary schools in Education District III, Lagos State, Nigeria?

Table 4: Correlation between Students' Prior Achievement and Teachers' Instructional Delivery

| Variables                        | Students' Prior<br>Achievement | Teachers' Instructional Delivery |
|----------------------------------|--------------------------------|----------------------------------|
| Students' Prior Achievement      | 1                              | .352                             |
| Teachers' Instructional Delivery | .352                           | 1                                |

r = .352, Sig. (2-tailed) = .000

**Interpretation:** The data show a moderate, positive, and significant link (p < 0.05) between students' past scores and how students rate your teaching. When entry marks are high, pupils tend to say your delivery is strong.

Question two: What is the correlation between students' academic background and teachers' classroom management in senior secondary schools in Education District III, Lagos State, Nigeria?

Table 5: Gives the numbers for this test.

| Tuble 5. Gives the numbers for this test. |                    |                      |  |  |  |
|---|--------------------|----------------------|--|--|--|
| Variables                                 | Students' Academic | Teachers'            |  |  |  |
|   | Background         | Classroom Management |  |  |  |
| Students' Academic Background             | 1                  | .479                 |  |  |  |
| Teachers' Classroom Management            | .479               | 1                    |  |  |  |

$$N = 365$$
,  $r = .479$ , Sig. (2-tailed) = .000

**Interpretation**: The result from the analysis reveals a moderate-to-strong positive and statistically significant correlation in the analysis (p < 0.05) between students' academic background and teachers' classroom management. This indicates that

stronger academic backgrounds are linked to more effective classroom management by teachers.

## Test of Hypothesis

**Ho1:** there is no significant relationship between students' prior achievement and teachers'

instructional delivery in senior secondary schools in Education District III, Lagos State, Nigeria.

Table 6: Regression Analysis of the study showed Students' Prior Achievement and Teachers' Instructional Delivery

| Model             | Unstandardized B | Std. Error | Beta | t     | Sig. |
|-------------------|------------------|------------|------|-------|------|
| (Constant)        | 1.932            | .143       | _    | 13.51 | .000 |
| Prior Achievement | .482             | .071       | .352 | 6.80  | .000 |

$$R = .352, R^2 = .124, F = 46.21, p = .000$$

**Interpretation:** The regression result from the analysis showed a significant positive relationship between students' prior achievement and teachers' instructional delivery in the analysis ( $\beta$  = .352, p < 0.05). Thus, the study therefore rejected the null hypothesis. This further implies and showed that there is a significant relationship between students' prior achievement and teachers' instructional

delivery in senior secondary schools in Education District III, Lagos State, Nigeria.

**Ho2:** There is no significant relationship between students' academic background and teachers' classroom management in senior secondary schools in Education District III, Lagos State, Nigeria.

Table 7: Regression Analysis of Students' Academic Background and Teachers' Classroom Management

| Model               | Unstandardized B | Std. Error | Beta | t     | Sig. |
|---------------------|------------------|------------|------|-------|------|
| (Constant)          | 1.684            | .137       |      | 12.29 | .000 |
| Academic Background | .545             | .054       | .479 | 10.07 | .000 |

$$R = .479, R^2 = .229, F = 101.42, p = .000$$

**Interpretation:** The regression result reveals a significant positive relationship between students' academic background and teachers' classroom management ( $\beta$  = .479, p < 0.05). Therefore, the null hypothesis is rejected. This implies that is a significant relationship between students' academic background and teachers' classroom management in senior secondary schools in Education District III, Lagos State.

## **Discussion of Findings**

The correlation between students' prior achievement and teachers' instructional delivery in senior secondary schools in Education District III, Lagos State

The regression analysis revealed a significant positive relationship between students' prior achievement and teachers' instructional delivery ( $\beta$  = .352, p < 0.05). Strong prior academic performance is correlated with more favourable evaluations of instructional practice, reflecting a mechanism whereby previous success conditions later appraisal. Allensworth and Clark (2020) found that GPAs predict future success. Chingos (2018) showed that students who prepare before exams earn better marks. Prior knowledge shapes how they learn new skills, which builds the base for later grades. Strong past results are also linked to better classroom order.

This supports the findings of Mozenter (2019). He noted that teacher skill depends on class makeup.

Strong management works best when students already have a solid academic record. Gage et al. (2017) showed that planned steps can guide student behaviour. A calm class makes teaching easier. These study also suggest classroom management is not only about teacher control. Student strengths also shape how learning happens. Strong teaching support can prevent many behaviour problems. Policies should join teaching and behaviour plans. Teacher training should also stress classroom strategies that match student needs.

#### Conclusion

The study found a link between past grades and clear teaching. Students who are ready, help the teachers to teach better. This gives new students the tools they need to think and learn. School leaders can use the results to shape teacher training. Training should focus on teaching methods that fit different student levels. Teachers can also use the findings to check their own work. They may see ways to change lessons or class rules to make learning feel personal. Linking lessons to each student's way of thinking and past experience can spark interest and improve results.

Student entry characteristic, such as prior academic knowledge, cognitive abilities, motivation, and socio-economic background play a critical role in shaping how well students engage with classroom activities and respond to instructional strategies.

When teachers possess strong task performance skills, including effective lesson preparation, delivery, assessment practices, classroom management, and record keeping, they can better support diverse learners and mitigate disparities arising from individual differences. Strengthening both variables is therefore essential for attaining improved learning outcomes in senior secondary schools.

#### Recommendations

- 1. Train teachers to be flexible in how they teach the student for better performance.
- 2. Government needs to increase funding for instructional materials, classroom technology, and infrastructure that support differentiated teaching for varied student backgrounds.
- 3. Educational planners should develop policies promoting learner profiling, ensuring every

- school systematically collects data on students' academic history, socio-economic background.
- 4. School principals need to create an academic structure, such as remedial classes and counselling, for students with weak entry characteristics and strengthen instructional supervision to ensure teachers consistently apply effective lesson preparation, delivery, and assessment strategies.
- 5. Teachers' to use differentiated instruction to cater to varying cognitive abilities, learning styles, and motivation levels and maintain accurate records of students' learning progress to inform targeted interventions.

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