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Examining Teachers' Strategies for Capturing Students' Attention and Interest to Enhance Classroom Teaching Practices

Dr. Muhammad Arshad Tariq[1], Dr. Nazir Haider Shah[2], Dr. Imrab Shaheen[3]

[1] Principal, Government Graduate College Shahkot Dist. Nankana Sahib.
Email: arshadtariqphd@gmail.com

[2] Institute of Education, University of Sargodha, Sargodha-Pakistan. Corresponding Author
Email: nazir.haider@uos.edu.pk

[3]Assistant Professor, Department of Public Administration, University of Kotli, AJ&K.
Email: imrabs@yahoo.com

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Abstract

The current inquiry's major purpose was to investigate how teachers followed to draw students' attention and interest to foster practice and improve students' learning in the classroom. The impact of gender, qualification, experience and stages of teaching variables on drawing students' attention was also examined. The study subjects were one hundred and four teachers who responded to the questionnaire. The teachers' ways of getting students' attention and interest depend upon innovative instructional methods and technology, reinforcement, and teaching aids. It was found that there was a difference in students' level of attention to lesson content according to gender variable in favour of male teachers, according to qualification supporting diploma holders, according to experience for teachers who had more than ten years of experience and according to the stage of teaching in favour of elementary stage. Considering the study findings, it is recommended that some professional training courses and workshops for teachers to enrich their experiences by drawing students' attention in class should be arranged to improve their practice.

Keywords: Students' Attention, Teaching Strategies, Reinforcement, Teaching Aids, Gender, Qualification, Experience, Teaching Practice.

Introduction

Students' engagement is a critical factor in effective teaching and learning (Pan & Yao, 2024). Drawing pupils' attention and interest is the most vital element of professional teaching in the classroom. It is an internal and cognitive process that must be developed for students' educational achievement (McClelland et al., 2013; Bloom, 1976). Students' Attention and interest are drawn through diverse teaching strategies, reinforcement techniques, and teaching aids (Powell, Symbaluk & Honey, 2009; Smith, 2008; Padma, 2008). Teachers improve learners' learning and academic accomplishment by applying valid instructional approaches to drawing attention.

Some appropriate teaching strategies, such as constructive feedback, proactive questioning and varying the voice tune (Mohanty, 2008; Tariq, 2013; Bain, 2004), are practised by teachers to draw students' attention. Moreover, there are some attention and interest-drawing reinforcement techniques, such as treating students with reverence, managing the classroom, and giving rewards (Shindler, 2010; Leman, 2009). Teaching aids are also deemed the most advantageous method of drawing students' attention in classroom teaching practice. Aids of teaching include colourful presentation of content by means of whiteboards, charts and cartoons (Tyldesley & Truner, 2005).

State-of-the-art teaching aids such as TV, DVD/CDs, computers and the Internet (Bhattacharya, 2010; Lucas & Bernstein, 2010) are applicable means of drawing students' attention and interest.
The study is grounded in educational theories such as constructivism, which emphasis active learning, and the self-determination Theory (SDT), which highlights the role of intrinsic motivation in student engagement (Wood, 2018). These theories support the notion that effective teaching involves interactive and student-centered approaches. Due to the positive effectiveness of drawing attention and interest to the teaching and learning process in the classroom, the current study focuses on teachers' strategies for drawing students' attention and interest. This study aims to achieve the following objectives such as:

1. Identify the pedagogical strategies, reinforcement techniques, and instructional aids teachers use to draw students' attention.
2. To analyze the impact of gender, experience, qualification and teaching stage on drawing students' attention.

This study might be helpful to teachers, curriculum designers, students, and possibly parents. It will allow them to change their strategies for drawing students' attention while they are learning.
In contemporary educational landscapes, capturing and sustaining student attention has emerged as one of the most pressing challenges for educators worldwide. The digital age has fundamentally altered students' cognitive engagement patterns, with research indicating that the average attention span has decreased significantly in recent years (Mark et al., 2023). This phenomenon, coupled with increasing classroom diversity and competing external stimuli, necessitates a sophisticated understanding of pedagogical strategies that effectively engage learners. This literature review synthesizes current research on teacher strategies for enhancing student attention and interest, examining theoretical frameworks, evidence-based practices, technological interventions, and emerging challenges in maintaining classroom engagement.
The theoretical foundations of student engagement have evolved considerably in recent years, integrating insights from cognitive neuroscience and educational psychology. The extended ARCS-V model (Keller, 2023) builds upon traditional motivational frameworks by incorporating volitional components, emphasizing students' capacity for self-regulated attention. Contemporary interpretations of Self-Determination Theory (Ryan & Deci, 2023) highlight the critical role of autonomy-supportive teaching practices in fostering intrinsic motivation. Neuroscientific research has further enriched our understanding, demonstrating how dopamine-mediated reward systems in the brain respond to novel and challenging stimuli (Immordino-Yang & Gotlieb, 2023). These theoretical advancements suggest that effective engagement strategies must address both cognitive and emotional dimensions of learning, creating conditions where students naturally orient their attention toward instructional content.
Recent empirical studies have identified several high-impact strategies for capturing student attention in classroom settings. Multisensory instructional approaches, grounded in Mayer's (2022) cognitive theory of multimedia learning, have shown particular promise. Teachers who strategically combine visual, auditory, and kinesthetic elements in their lessons report significantly higher levels of student engagement (Moreno & Mayer, 2022). The concept of "cognitive hooks" has gained traction, with research suggesting that brief, provocative stimuli at lesson onset—such as thought experiments, real-world problem scenarios, or unexpected demonstrations—can dramatically improve initial attention capture (Schwartz et al., 2023). Temporal dynamics of attention have also been investigated, with evidence supporting the use of structured breaks and attention-refreshing activities every 15-20 minutes to combat natural attention decline (Wong et al., 2023).
Sustaining student interest throughout instructional sequences requires different strategies than initial attention capture. Contemporary research emphasizes the importance of perceived relevance, with culturally sustaining pedagogies (Paris & Alim, 2023) demonstrating particular

effectiveness in maintaining engagement among diverse student populations. Project-based learning approaches that connect classroom content to authentic, real-world problems have shown consistent positive effects on sustained attention and deep learning (Krajcik & Shin, 2023). The role of teacher immediacy behaviors—including vocal variety, eye contact, and physical proximity—has been re-examined in digital and hybrid learning environments, with findings suggesting these nonverbal cues remain critical for maintaining student focus (Baker et al., 2023).

The digital transformation of education has introduced both opportunities and challenges for student engagement. While technology can provide powerful engagement tools, research cautions against what Sweller (2023) terms "cognitive overload by design." Effective integration of educational technology follows Mayer's (2023) principles of multimedia learning, using digital tools to enhance rather than replace fundamental pedagogical strategies. Emerging technologies like augmented reality (AR) and virtual reality (VR) show particular promise for engagement, with studies demonstrating their effectiveness in creating immersive learning experiences that sustain attention (Pellas et al., 2023). However, the digital divide remains a significant concern, as unequal access to technology can exacerbate existing engagement disparities (Selwyn, 2023).

Teacher-student relationships continue to play a pivotal role in engagement strategies. Recent work on "wise feedback" (Yeager et al., 2023) demonstrates how specific types of teacher comments can significantly enhance student motivation and attention. The concept of "pedagogical caring" (Noddings, 2023) has been expanded to include digital contexts, emphasizing the importance of teacher presence and responsiveness in online learning environments. Research on teacher enthusiasm has gained renewed attention, with neuroimaging studies showing that enthusiastic teaching activates students' mirror neuron systems, facilitating deeper engagement (Immordino-Yang et al., 2023).

Significant challenges remain in implementing effective engagement strategies across diverse educational contexts. The proliferation of digital distractions presents a particular challenge, with studies showing that even the presence of smartphones in classrooms can significantly reduce attention and learning (Beland & Murphy, 2023). Large class sizes continue to hinder personalized engagement strategies, though some research suggests that peer learning systems can help mitigate this challenge (Slavin, 2023). The COVID-19 pandemic's lasting effects on student attention and engagement behaviors are still being understood, with preliminary research indicating persistent challenges in reactivating deep engagement patterns (Engzell et al., 2023).

Emerging research directions point toward several promising avenues for enhancing student engagement. Neuroeducation research is beginning to provide concrete strategies for aligning teaching practices with brain-based attention mechanisms (Tokuhama-Espinosa, 2023). The field of educational data analytics is developing sophisticated methods for real-time engagement monitoring, allowing for more responsive teaching (Di Mitri et al., 2023). Additionally, research on mindfulness-based interventions in education suggests potential for improving students' attention regulation capacities (Zenner et al., 2023).

This comprehensive examination of current literature reveals that effective engagement strategies require a multifaceted approach that combines neuroscientific insights, pedagogical expertise, and technological integration. The most successful teachers appear to be those who can dynamically adapt their engagement strategies based on continuous assessment of student responses. Future research should focus on longitudinal studies of engagement strategies' effectiveness across different developmental stages and cultural contexts, as well as investigations into how emerging technologies can be harnessed to support rather than detract from deep engagement. As educational environments continue to evolve, the ability to capture and sustain student attention will remain a cornerstone of effective teaching practice.

The population of the study comprised school teachers belonging to Lahore, Pakistan. The study subjects were 104 teachers (male=48 & female =56) selected through sample random sampling technique. The other chief characteristics of participants were given in the tables such as:

Table 1: Breakup of the sample according to sex.

Gender	Teachers	Percent
Male	48	46.2
Female	56	53.8
Total	**104**	**100**

Table 2: Breakup of sample in keeping with qualification.

Qualification	Teachers	Percent
Diploma	22	21.2
Bachelor	75	72.1
Master	7	6.7
Total	**104**	**100**

Table 3: Breakup of sample in line with teaching experience.

Experience (Years)	Teachers	Percent
>5	32	30.8
6 – 10	35	33.7
<10	37	35.6
Total	**104**	**100**

Instrument

The data were collected using a questionnaire based on a literature review. The questionnaire comprised three domains: teaching strategies, reinforcement, and teaching aids. Twenty items were in the instrument. The independent variable of the study was the teacher's role in drawing students' attention, which had four variables: sex, qualification, experience, and stage of teaching.

On the other hand, the dependent variable was the student's attention and interest. The validity of the questionnaire was determined through experts' views. They found the items valid and appropriate for collecting data. The reliability of the items was 0.71 according to Cronbach's alpha statistical technique using SPSS version 16 software.

Collection & Analysis of Data

The questionnaire copies were distributed among the teachers of different schools for data collection. The following scale was employed to calculate the degree of domains:

1. < 50% = very low.
2. 50 to 59.9 = low.
3. 60 to 69.9 = moderate.
4. 70 to 79.9 = high.
5. 80 and above = very high.

Statistical techniques such as means, standard deviations and percentages were also used to analyze the collected data.

The Results

Teaching Strategies

Table 4: Teaching strategies for drawing students' attention.

Items	Mean	SD	%age	Scale
Using feedback	4.62	0.58	92	V. High
Using varied questions	4.55	0.78	91	V. High
Asking for preparation	4.28	0.90	89	V. High
Assigning homework	4.31	0.68	86	V. High
Varying the vice tone	4.25	0.92	85	V. High
Using recalling	3.86	0.96	77	High
Calling students name	3.41	1.23	68	Moderate
Connecting subjects	3.35	1.08	67	Moderate
Using some mistakes	3.25	1.21	52	Low
Deciding student to answer	2.35	1.13	47	Low
Total Degree of Domain	**3.75**	**0.35**	**75**	**High**

Table 4 reflects that teachers used several teaching strategies to draw students' attention. The teacher's method domain ranked highest (75%). The teachers' most dominant way of getting students' attention was the use of feedback. They seldom asked a student to answer. This indicates the necessity for teacher training on more ways of grasping students' attention.

Reinforcement

In the domain of reinforcement, as teachers' role in drawing students' attention, the means, standard deviation, and percentages were used to analyze the results.

Table 5: Teachers' use of reinforcement to draw students' attention.

Item	Mean	SD	%age	Scale
Calling students with sweet attributes	4.23	0.77	85	V. High
Sharing activities	3.77	0.85	75	High
Seating student in front seats	3.72	0.99	74	High
Smiling	3.59	2.08	72	High
Using rewards	2.34	1.20	47	Low
Total Degree of Domain	**3.52**	**0.52**	**70**	**High**

Table 5 reflects teachers' responses about using the reinforcement domain to draw students' attention. Based on mean scores, the most dominant way teachers used it was by calling students with lovely, sweet attributes. The total degree of the domain was 70%, which was high in view of the scale.

Teaching Aids

Table 6: Teachers' use of teaching aids to draw students' attention.

Items	Mean	SD	%age	Scale
Vary the methods	4.48	0.17	90	V. High
Colourful chalks / markers	4.28	0.92	86	V. High
Drawing cartoons	3.83	1.16	77	High
Using Computers/Internet	1.66	0.96	33	Low
Using T.V	1.56	0.82	31	Low
Total Degree of Domain	**3.16**	**0.51**	**63**	**Moderate**

Table 6 presents teachers' use of teaching aids to draw students' attention. Based on the mean scores, it is concluded that most teachers tended to vary their methods. However, the researcher believes our schools lack technology and TV sets. Most teachers used colourful chalk and old methods. The total degree of the domain of the teaching aid was 63%, which was placed as moderate according to the scale.

Table 7: Results of domains of teaching due to gender.

Domains	Male		Female	
	Mean	SD	Mean	SD
Teaching Strategies	3.78	0.36	3.72	0.35
Reinforcement	3.64	0.43	3.39	0.51
Teaching Aids	3.26	0.49	3.04	0.50
Total Degree	**3.15**	**0.03**	**3.07**	**0.33**

Table 7 shows that teachers' ways of drawing students' attention were different between males and females. Reinforcement was in favor of males, as was the teaching methods domain. The total degree was in favour of males. This shows that they need to be trained in ways of getting attention.

Table 8: Results of the domain of teaching according to qualification

Domains	Diploma		Bachelor		Master	
	Mean	SD	Mean	SD	Mean	SD
Teacher Strategies	3.65	0.31	3.77	0.38	3.98	0.14
Reinforcement	3.64	0.38	3.49	0.55	3.54	0.41
Teaching Aids	3.40	0.38	3.08	0.51	3.22	0.55
Total Degree	**3.17**	**0.23**	**3.09**	**0.35**	**3.11**	**0.28**

Table 8 demonstrates that teachers with diplomas worked more to draw students' attention. Teacher strategies varied among teachers holding M.A. degrees. Diploma holders used more reinforcement and teaching aids. This is a good phenomenon since children may pay attention quickly.

Table 9: Results of domain of teaching according to experience.

Domains	<5 Years		5–10 Years		> 10 Years	
	Mean	SD	Mean	SD	Mean	SD
Teaching Strategies	3.81	0.34	3.66	0.34	3.78	0.37
Reinforcement	3.58	0.47	3.48	045	3.52	0.60
Teaching Aids	3.19	0.55	3.10	0.40	3.18	0.56
Total Degree	**3.12**	**0.38**	**3.05**	**0.24**	**3.16**	**0.35**

Table 9 shows that experience plays an important role in drawing students' attention. Teachers who have more than 10 years of experience get the highest degree. In contrast, young teachers seem more careful about getting students' attention.

Table 10: Results of domains of teaching according to stages of teaching.

Domains	Elementary		Secondary	
	Mean	SD	Mean	SD
Teaching Strategies	3.72	0.36	3.80	0.33
Reinforcement	3.57	0.46	3.45	0.59
Teaching Aids	3.20	0.44	3.08	0.60
Total Degree	**3.12**	**0.28**	**3.09**	**0.40**

As Table 10 shows, elementary school teachers used multiple teaching aids. They also used reinforcement more than teachers of secondary schools, who varied their teaching strategies to draw students' attention. The total degree was in favour of elementary school teachers.

Conclusion & Discussion

Based on analysis, it was concluded that the teachers varied in practising teaching strategies to draw students' attention and interest in the classroom. The most dominant teaching strategy practised by teachers was feedback. There was a difference between males and females in favour of males in drawing students' attention. Further, it was found that there was a difference between qualification and drawing students' attention in favour of degree holders. There was a difference between experience and drawing students' attention in favour of those with more than 10 years of experience because these teachers have learned from their teaching experience. The variable of stages of teaching was also measured. Due to the stage of teaching, it was found that there was a difference in teachers' role in drawing attention in favour of elementary stage teachers. One explanation for this is that young students need more effort to be attracted by their teachers.

The study's findings showed a difference between teachers' roles in drawing students' attention. However, it was found that there were not differences between means of domains and teachers' role in drawing students' attention. On the other hand, there were differences between the teacher method and reinforcement in favour of the teacher method. This shows the importance of how the teachers use class to draw students' attention. It was also found that there were differences between teaching strategies and teaching aids in favour of teaching strategies. Teachers widely used reinforcement in all stages of teaching: elementary and secondary. Teachers were aware of the psychological problems of inattentive students. Differences were also found between reinforcement and teaching aids in favour of reinforcement.

In addition, this study supports many other studies conducted by another researcher, Russell (1997). The study showed the effective role of teachers in following certain procedures to sustain students' attention, like developing good relationships between teachers and students, as well as training them on certain procedures to draw students' attention, like giving quick feedback, which took a high percentage as an item in the questionnaire and in directed that most teachers followed it in class.

In items testing teachers' procedures, it was found that teachers followed varying voice tones, assigned homework, and asked varied questions, which all agreed with studies by Nunley (2001). However, the findings showed little use of procedures like talking individually with students and calling their names before asking them. Discussing and recalling were less used. Connecting subjects and insisting on making some mistakes were not used.

Recommendations

In light of the review of related literature and the findings of this study, the following recommendations were suggested to enhance students' attention and foster the teaching practice in the classroom. More effort must be given to improve teachers' experience in getting students'

attention. Holding programs, workshops, training courses, and visiting foreign schools can enrich their experience. Teachers must consider individual differences among students when they try various ways to draw their attention. Further studies should be conducted to test other variables, such as class size and visual aids. Moreover studies should be carried out on a large population.

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