

Table 4 Levels of Learner Autonomy Supportive Behaviors of Primary school teachers

| Items of Autonomy Supportive Levels | Always | | Often | | Sometime s | | Rarely | | Never | | Mean | SD |
|---|--------|------|-------|------|---------------|------|--------|-----|-------|-----|------|------|
| | N | % | n | % | n | % | n | % | n | % | | |
| To approach students with empathy (placing yourself in their shoes). | 302 | 56.2 | 204 | 38 | 23 | 4.3 | 3 | 0.6 | 5 | 0.9 | 1.52 | 0.69 |
| To allow students to express their learning problems. | 394 | 73.4 | 128 | 23.8 | 7 | 1.3 | 3 | 0.6 | 5 | 0.9 | 1.32 | 0.62 |
| To share the feelings and thoughts of the students regarding all kinds of choices (activity, material, method, etc.) in the learning process. | 295 | 54.9 | 215 | 40 | 19 | 3.5 | 3 | 0.6 | 5 | 0.9 | 1.53 | 0.68 |
| To share students' feelings and thoughts about their learning. | 352 | 65.5 | 153 | 28.5 | 24 | 4.5 | 3 | 0.6 | 5 | 0.9 | 1.43 | 0.69 |
| To encourage students to do extra-curricular studies (research, reading, projects, etc.) to improve their learning. | 357 | 66.5 | 147 | 27.4 | 25 | 4.7 | 3 | 0.6 | 5 | 0.9 | 1.42 | 0.69 |
| To provide students with feedback on their learning. | 397 | 73.9 | 130 | 24.2 | 2 | 0.4 | 3 | 0.6 | 5 | 0.9 | 1.30 | 0.60 |
| To encourage students to ask questions in the lessons. | 440 | 81.9 | 87 | 16.2 | 2 | 0.4 | 8 | 0 | 0 | 8 | 1.5 | 0.60 |
| To encourage students to self-use (authentic) real-life materials outside of the classroom. | 329 | 61.3 | 178 | 33.1 | 19 | 3.5 | 5 | 0.9 | 6 | 1.1 | 1.47 | 0.71 |
| To ensure that students receive help from individuals outside the classroom (mother, father, an expert, etc.) to support their learning. | 313 | 58.3 | 140 | 26.1 | 68 | 12.7 | 10 | 1.9 | 6 | 1.1 | 1.61 | 0.86 |

| | | | | | | | | | | | | |
|---|-----|------|-----|------|----|------|---|-----|----|-----|------|------|
| To support students to carry out independent studies (practice, repetition, reading, summarizing, etc.) in the classroom by themselves. | 368 | 68.5 | 129 | 24.0 | 31 | 5.8 | 3 | 0.6 | 6 | 1.1 | 1.42 | 0.73 |
| To collaborate with students' families on issues associated with the learning process. | 411 | 76.5 | 104 | 19.4 | 14 | 2.6 | 0 | 0 | 8 | 1.5 | 1.31 | 0.67 |
| To help students in setting learning goals. | 353 | 68.7 | 149 | 27.7 | 21 | 3.9 | 8 | 1.5 | 6 | 1.1 | 1.45 | 0.74 |
| To allow students to assess each other's work. | 254 | 47.3 | 202 | 37.6 | 69 | 12.8 | 9 | 1.7 | 3 | 0.6 | 1.71 | 0.80 |
| To share student assessments of their learning. | 303 | 56.4 | 191 | 35.6 | 34 | 6.3 | 3 | 0.6 | 6 | 1.1 | 1.54 | 0.74 |
| To support their participation in decisions about measurement and assessment. | 270 | 50.3 | 197 | 36.7 | 64 | 11.9 | 3 | 0.6 | 3 | 0.6 | 1.64 | 0.75 |
| To allow students to assess their own works. | 303 | 56.4 | 173 | 32.2 | 48 | 8.9 | 3 | 0.6 | 10 | 1.9 | 1.59 | 0.82 |

It is seen in Table 4 that the mean score of the primary school teachers for exhibiting the behaviors of supporting learner autonomy is 1.47, whereas the total score value is 23.48. It is observed that primary school teachers have a low level of exhibiting behaviors of supporting learner autonomy.

Multiple Regression Analysis

Table 5 Bilateral Relationships among Variables

| | Exhibiting | Planning | Decision-making | Professional Development |
|--------------------------|------------|----------|-----------------|--------------------------|
| Exhibiting | - | - | - | - |
| Planning | .01 | - | - | - |
| Decision-making | -.05 | .76** | - | - |
| Professional Development | .08 | .52** | .67** | - |

** $p < .01$

Exhibiting learner autonomy supportive behaviors and planning ($r = .01, p > .05$), making decisions about educational programs ($r = -.05, p > .05$), as well as professional development ($r = .08, p > .05$) were not found to be significantly related.

Table 6 Findings Regarding the Prediction of Exhibiting Learner Autonomy Supportive Behaviors

| | <i>B</i> | <i>SH B</i> | β | <i>t</i> |
|--------------------------|----------|-------------|---------|----------|
| Planning | .08 | .06 | .09 | 1.43 |
| Decision-making | -.67 | .20 | -.25 | -3.29* |
| Professional development | .36 | .11 | .19 | 3.38* |
| R ² | | | .03 | |
| Adjusted R ² | | | .02 | |

* $p < .05$

The model for predicting learner autonomy supportive was found to be significant ($F(3, 533) = 4.99, p < .05$). Among the dimensions of autonomy; decision-making about educational programs ($B = -.67, t = -3.29, p < .05$) and professional development ($B = .36, t = 3.38, p < .05$) contribute significantly. A one-unit increase in teachers' decision-making levels regarding educational programs predicts a .67-unit decrease in exhibiting learner autonomy supportive behaviors. A one-unit increase in teachers' professional development levels predicts an increase of .36 units. The model explains 2% of the variance of exhibiting learner autonomy supportive behaviors.

CONCLUSION, DISCUSSION and SUGGESTIONS

The present study investigated the relationship between the levels of primary school teachers' autonomy and learner autonomy supportive behaviors. To this end, a response was sought to the question "What is the level of primary school teachers' autonomy in the process of realizing the teaching profession?" in the first place. It was determined that the mean score of teachers' autonomy was 3.60, whereas the total score value was 64.81. The level of primary school teachers' autonomy is seen to be at a medium level.

Secondly, an answer was sought to the question "What are the levels of school teachers' learner autonomy supportive behaviors?" and the mean score of the primary school teachers' learner autonomy supportive behaviors was determined as 1.47, whereas the total score value was 23.48. It is observed that the level of exhibiting learner autonomy supportive behaviors of primary school teachers is low.

Lastly, the question "Does the autonomy levels of classroom teacher candidates significantly predict levels of their learner autonomy supportive behaviors?" was tried to be answered. Exhibiting learner autonomy support behaviors, planning and implementing instruction ($r = .01, p > .05$), making decisions regarding educational programs ($r = -.05, p > .05$), and professional development ($r = .08, p > .05$) were not found to be significantly related. The model in predicting learner autonomy supportive behaviors was found to be significant ($F(3, 533) = 4.99, p < .05$). Among the dimensions of autonomy; decision-making regarding educational programs ($B = -.67, t = -3.29, p < .05$) and professional development ($B = .36, t = 3.38, p < .05$) contribute significantly. A one-unit increase in teachers' decision-making levels about educational programs predicts a .67-unit decrease in exhibiting learner autonomy supportive behaviors. A one-unit increase in teachers' professional development levels predicts an increase of .36 units. The model explains 2% of the variance of exhibiting learner supportive autonomy behaviors. In the study conducted by Ataşbaş (2017), the relationship between teacher autonomy and the level of behaviors supporting learner autonomy, consistent with the findings of this research, emerged as a significant yet moderately negative predictive model, unlike the high levels observed in this study. In a study by Yazıcı (2016), the relationship between teachers' autonomy levels and behaviors supporting learner autonomy was found to be in the same direction and at a moderate level. This study is the third in Türkiye to explore the relationship between these two variables. Ataşbaş (2017) explained a similar outcome in his study through systemic patterning, attributing it to teachers feeling confined within certain patterns and perceiving themselves as curriculum guards due to rigid inspection systems. The existence of a comprehensive checklist proposal for transitioning to positive educational practices (Seligman and Adler, 2019) supports Ataşbaş's statements. A paradigm shift in education may be possible by integrating all components of the system with this paradigm. Although the autonomy levels of classroom teachers may be higher with the contribution of the specific context of their fields (Buyruk and Akbaş, 2021), a paradigm shift is needed throughout the system for it to contribute to behaviors supporting student autonomy. In a system shaped by a centralist understanding (Karatay, Günbey, and Taş, 2020; Buyruk and Akbaş, 2021), an increase in teacher autonomy may not lead to the enrichment of educational processes supporting student autonomy but rather a shift of power towards teachers from school management. Scientific studies show that a positive educational environment that supports student autonomy increases students' achievements and well-being (Cheon, Reeve, Vansteenkiste, 2020). However, achieving such a positive

educational environment requires the restructuring of all components of education, as seen in practical applications (Seligman and Adler, 2019). It can be said that the results of the research align with these realities.

Future studies can be conducted with different populations and samples to measure levels of autonomy and autonomy supportive behaviors. Furthermore, only a quantitative research method was employed in the present study. By carrying out new studies, it would be possible to employ qualitative research methods in these studies and to conduct mixed-pattern research studies.

Declarations

Conflict of Interest

No potential conflicts of interest were disclosed by the authors with respect to the research, authorship, or publication of this article.

Ethics Approval

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Research and Publication Ethics Statement

The study was approved by Institute of School of Educational Sciences of Ege University, Türkiye (Approval Number. 39262). The study will not cause any mental or physical harm to the subjects and will not compromise their safety and right. "Examination of The Relationship Between Levels of Primary School Teachers' Autonomy and Their Learner Autonomy Supportive Behaviors" the following is fulfilled:

- This material is the authors' own original work, which has not been previously published elsewhere.
- The paper reflects the authors' own research and analysis in a truthful and complete manner.
- The results are appropriately placed in the context of prior and existing research.
- All sources used are properly disclosed.

Contribution Rates of Authors to the Article

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