Achieving the 4:1 Ratio

Related Readings and Research

Armendariz, F., & Umbreit, J. (1999). Using active responding to reduce disruptive behavior in a general education classroom. *Journal of Positive Behavior Interventions,1*,152–158.

Balfanz, R., Herzog, L., & MacIver, D. J. (2007). Preventing student disengagement and keeping students on the graduation path in urban middle-grades schools: Early identification and effective interventions. Educational Psychologist,42,223–235.

Benett, T. (2001). Elementary students’ preferences for teacher praise. *Journal of Classroom Interaction, 36*, 16-23.

Blaze, J. T., Olmi, D. J., Mercer, S. H., Dufrene, B. A., & Tingstom, D. H. (2014). Loud versus quiet praise: A direct behavioral comparison in secondary classrooms. *Journal of School Psychology,52*,349–360.

Brummelman, E. Thomaes S., Orobio de Castro, B., Overbeek, G. Bushman, B.J., (2014). "That's Not Just Beautiful-That's Incredibly Beautiful!" The Adverse Impact of Inflated Praise on Children With Low Self-Esteem *Psychological Science 25(3)*

Caldarella, P., Larsen, R.A.A., Williams, L., Wills, H.P., & Wehby, J.H. (2021). “Stop doing that!”: Effects of teacher reprimands on student disruptive behavior and engagement. *Journal of Positive Behavior Interventions, 23*, 163-173.

Caldarella, P., Laresen, R.A.A., Williams, L., Downs, K.R, Wills, H.P., & Wheby, J.H. (2020). Effects of teachers’ praise to reprimand ratios on elementary students’ on-task behavior. *Educational Psychology, 40*, 1306-1322

Caldarella, P., Laresen, R.A.A., Williams, L., Wills, H.P., & Wehby, J.H. (2019). Teacher paise to reprimand ratios: Behavioral responses of students at risk for EBD compared with typically developing peers. *Education and Treatment of Children, 42*, 447-468.

Cook, C. R., Grady, E. A., Long, A. C., Renshaw, T., Codding, R. S., Fiat, A., & Larson, M. (2017). Evaluating the impact of increasing general education teachers' ratio of positive-to-negative interactions on students' classroom behavior. *Journal of Positive Behavior Interventions, 19(*2), 67–77.

Drake, K.R, & Nelson, G. (2021). Natural rates of teacher praise in the classroom: A systematic review of observational studies. *Psychology in the Schools, 58,* 2004-2024.

Downs, K.R., Caldarella, P., Laresen, R.A.A., Charlton, C.T., Wills, H.P., Kamps, D.M., & Wehby, J.H. (2019). Teacher praise and reprimands: The differential response of students at risk for emotional and behavior disorders. *Journal of Positive Behavior Interventions, 21*, 135-147.

Ennis, R. P., Royer, D. J., Lane, K. L., & Dunlap, K. D. (2020). Behavior-specific praise in preK–12 settings: Mapping the 50 year knowledge base. *Behavioral Disorders, 45(3),* 131–147.

Ennis, R. P., Royer, D. J., Lane, K. L., Menzies, H. M., Oakes, W. P., & Schellman, L. E. (2018). Behavior specific praise: An effective, efficient, low intensity strategy to support student success. *Beyond Behavior, 27(3),* 134–139.

Fefer, S., DeMagistris, J., & Shuttleton, C. (2016). Assessing adolescent praise and reward preferences for academic behavior. *Translational Issues in Psychological Science, 2(2),* 153–162.

Floress, M. T., & Jenkins, L. N. (2015). A preliminary investigation of kindergarten teachers' use of praise in general education classrooms. Preventing School Failure: *Alternative Education for Children and Youth, 59(4)*, 253–262.

Floress, M. T., Jenkins, L. N., Reinke, W. M., & McKown, L. (2018). General education teachers' natural rates of praise: A preliminary investigation. *Behavioral Disorders, 43(4),* 411– 422.

Gable, R.A., Hester, P.P., Rock, M.L., & Hughes, K. (2009). Back to basics: Rules, praise, ignoring, and reprimands revisited. *Intervention in School and Clinic, 44*, 195-205.

Gage, N. A., MacSuga-Gage, A. S. (2017). Salient classroom management skills: Finding the most effective skills to increase student engagement and decrease disruptions. Report on Emotional & Behavioral Disorders in Youth, 17, 19–24.

Haydon, T., & Musti‐Rao, S. (2011). Effective use of behavior‐specific praise: A middle school case study. *Beyond Behavior, 20(2),*31–39.

Haydon, T., Musti‐Rao, S., Kennedy, A., Murphy, M., Hunter, W., & Boone, J. (2020). Using teacher praise with middle and high school students. *Beyond Behavior, 29(2),* 108–115.

Hollingshead, A., Kroeger, S.D., Altus, J., & Brubaker Trytten, J. (2016). A case study of positive behavior supports-based interventions in a seventh-grade urban classroom. *Preventing School Failure, 60*, 278-285.

Jenkins, L. N., Floress, M. T., & Reinke, W. (2015). Rates and types of teacher praise: A review and future directions. *Psychology in the Schools, 52(5)*, 463–476.

McComas, J. J., Downwind, I., Klingbeil, D. A., Petersen-Brown, S., Davidson, K. M., & Parker, D. C. (2017). Relations between instructional practices and on-task behavior in classrooms serving American Indian students. *Journal of Applied School Psychology, 33(2),* 89–108.

Mitchell, M.M., & Bradshaw, C.P. (2013). Examining classroom influences on student perceptions of school climate: The role of classroom management and exclusionary disciplinary strategies. *Journal of School Psychology, 51*, 599-610).

Moore, T. C., Maggin, D. M., Thompson, K. M., Gordon, J. R., Daniels, S., & Lang, L. E. (2019). Evidence review for teacher praise to improve students' classroom behavior. *Journal of Positive Behavior Interventions, 21(1)*, 3–18.

Myers, D.M., Simonsen, B., & Sugai, G. (2011). Increasing teachers’ use of praise with a response-to-intervention approach. *Education and Treatment of Children, 34*, 35-59.

Musti-Rao, S., & Haydon, T. (2011). Strategies to increase behavior-specific teacher praise in an inclusive environment. *Intervention in School and Clinic, 47(2),* 91–97.

Nafpaktitis, M., Mayer, G. R., & Butterworth, T. (1985). Natural rates of teacher approval and disapproval and their relation to student behavior in intermediate school classrooms. Journal of Educational Psychology, 77(3), 362-367.

Owens, J. S., Holdaway, A. S., Smith, J., Evans, S. W., Himawan, L. K., Coles, E. K., Girio-Herra, E., Mixon, C. S., Egan, T. E., &Dawson, A. E. (2018). Rates of common classroom behavior management strategies and their associations with challenging student behavior in elementary school. Journal of Emotional and Behavioral Disorders, 26(3), 156–169. https://doi.org/10.1177/1063426617712501

Pas, E.T., Cash, A.H., O’Brennan, L., Debnam, K.J., Bradshaw, C.P. (2015). Profiles of classroom behavior in high schools: Associations with teacher behavior management strategies and classroom composition. *Journal of School Psychology, 53*, 137-148.

Pisacreta, J., Tincani, M., Connell, J. E., & Axelrod, S. (2011). Increasing teachers' use of a 1: 1 praise‐to‐behavior correction ratio to decrease student disruption in general education classrooms. *Behavioral Interventions, 26(4)*, 243–260.

Rathel, J.M., Drasgow, E., Brown, W.H., & Marshall, K.J. (2014). Increasing induction-level teachers; positive-to-negative communication ratio and use of behavior-specific praise through e-mailed performance feedback and its effect on students’ task engagement. *Journal of Positive Behavior Interventions, 16,* 219-233.

Reddy, L.A., Fabiano, G.A., Duek, C.M., & Hsu, L. (2013). Instructional and behavior management practices implemented by elementary general education teachers. *Journal of School Psychology, 51*, 683-700.

Reinke, W. M., Herman, K. C., & Stormont, M. (2013). Classroom-level positive behavior supports in schools implementing SWPBIS: Identifying areas for enhancement. Journal of Positive Behavior Interventions, 15(1), 39–50.

Reinke, W. M., Lewis-Palmer, T., & Merrell, K. (2008). The classroom check-up: A classwide teacher consultation model for increasing praise and decreasing disruptive behavior. School Psychology Review, 37(3), 315–332. [https://doi.org/10.1080/02796015.2008.12087879\*](https://doi.org/10.1080/02796015.2008.12087879*)

Ritz, M., Noltemeyer, A., Davis, D., & Green, J. (2014). Behavior management in preschool classrooms: Insights revealed through systematic observation and interview. *Psychology in the Schools, 51(2),* 181–197. <https://doi.org/10.1002/pits.21744>

Royer, D. J., Lane, K. L., Dunlap, K. D., & Ennis, R. P. (2019). A systematic review of teacher-delivered behavior-specific praise on K–12 student performance. Remedial and Special Education, 40(2), 112–128. [https://doi.org/10.1177/0741932517751054\*](https://doi.org/10.1177/0741932517751054*)

Ruiz-Primo, M. A., & Li, M. (2013). Analyzing teachers' feedback practices in response to students' work in science classrooms. Applied Measurement in Education, 26(3), 163–175. <https://doi.org/10.1080/08957347.2013.793188>

Scott, T.M., Gage, N., Hirn, R., & Han, H. (2019). Teacher and student race as a predictor for negative feedback during instruction. *School Psychology, 34*, 22-31.

Simonsen, B., Freeman, J., Dooley, K., Maddock, E., Kern, L., & Myers, D. (2017). Effects of targeted professional development on teachers' specific praise rates. Journal of Positive Behavior Interventions, 19(1), 37–47. https://doi.org/10.1177/1098300716637192\*

Sprouls, K., Mathur, S. R., & Upreti, G. (2015). Is positive feedback a forgotten classroom practice? Findings and implications for at-risk students. Preventing School Failure: Alternative *Education for Children and Youth, 59(3),*153–160. <https://doi.org/10.1080/1045988X.2013.876958>

Wills, H., Wehby, J., Caldarella, P., Kamps, D., & Swinbune, R.R. (2018). Class-wide function related intervention teams “CW-FIT”: Outcomes from a multisite randomized replication trial. The *Elementary Education Journal, 119*, 29-51.

Wills, H.P., Kamps, D., Hansen, B.D., Conlkin, C., Bellinger, S., Neaderhiser, J., & Nsubuga, B. (2010). The classwide function-based intervention team program. *Preventing School Failure: Alternative Education for Children and Youth, 54*, 164-171.