

REFERENCES

- Abel, M., & Sewell, J. (1999). Stress and burnout in rural and urban secondary school teachers. *The Journal of Educational Research*, 92, 287-293.
- Acker, S. (1988). Teachers, gender and resistance. *British Journal of Sociology of Education*, 9, 307-322.
- Alber, S. & Heward, W. (1997). Recruit it or lose it! Training students to recruit positive teacher attention. *Intervention in School and Clinic*, 32, 275-282.
- Alber, S., & Heward, W. (2000a). Teaching students to recruit positive attention: A review and recommendations. *Journal of Behavioural Education*, 10, 177-204.
- Alber, S., & Heward, W. (2000b). "Check this out!" Teaching students with disabilities to recruit contingent attention in the classroom. *The Behaviour Analyst Today*, 1(4), 53-57.
- Alber, S., Heward, W., & Hippler, B. (1999). Teaching middle school students with learning disabilities to recruit positive teacher attention. *Exceptional Children*, 65, 253-270.
- American Psychiatric Association. (1994). *Diagnostic and statistical manual of mental disorders* (4th ed.). Washington, DC: Author.
- Anderson, K. (1997). Gender bias and special education referrals. *Annals of Dyslexia*, 47, 151-162.
- Arbuckle, C., & Little, E. (2004). Teachers' perceptions and management of disruptive classroom behaviour during the middle years (years five to nine). *Australian Journal of Educational and Developmental Psychology*, 4, 59-70.
- Aron, A., & Aron, E. (1999). *Statistics for psychology* (2nd ed.). Upper Saddle River, NJ: Prentice-Hall.
- Asraf, R., & Brewer, J. (2004). Conducting tests of hypotheses: The need for an adequate sample size. *The Australian Educational Researcher*, 31, 79-94.

- Backe-Hansen, E., & Ogden, T. (1996). Competent girls and problematic boys? Sex differences in two cohorts of Norwegian 10- and 13-year-olds. *Childhood*, 3, 331-350.
- Baker, J. (1999). Teacher-student interaction in urban at-risk classrooms: Differential teacher, relationship quality, and student satisfaction with school. *The Elementary School Journal*, 100, 57-70.
- Bandura, A. (1986). *Social foundations of thought and action: A social cognitive theory*. Englewood Cliffs, NJ: Prentice-Hall.
- Beaman, R., & Wheldall, K. (1992) Review of the Individualised Classroom Environment Questionnaire (ICEQ). *Educational Psychology*, 12, 88-90.
- Becker, W.C., Madsen, C., Arnold, C., & Thomas, D. (1967). Contingent use of teacher attention and praise in reducing classroom problems. *Journal of Special Education*, 1, 287-307.
- Benjamin, S. (2003). Gender and special educational needs. In C. Skelton & B. Francis (Eds.), *Boys and girls in the primary classroom* (pp. 98-112). Berkshire: Open University Press.
- Bennett, R. (1992). Discipline in schools: The report of the committee of enquiry chaired by Lord Elton. In K. Wheldall (Ed.), *Discipline in schools: Psychological perspectives on the Elton Report* (pp. 1-9). London: Routledge.
- Berry, C., Shaywitz, S., & Shaywitz, B. (1985). Girls with attention deficit disorder: A silent minority? A report on behavioural and cognitive characteristics. *Pediatrics*, 76, 801-9.
- Borg, M. (1998). Secondary school teachers' perception of pupils' undesirable behaviours. *British Journal of Educational Psychology*, 68, 67-79.
- Borg, M., & Falzon, J. (1989a). Primary school teachers' perception of pupils' undesirable behaviours. *Education Studies*, 15, 251-260.
- Borg, M., & Falzon, J. (1989b). Stress and job satisfaction among primary school teachers in Malta. *Educational Review*, 41, 271-279.

- Borg, M., & Falzon, J. (1990). Primary school teachers' perceptions of pupils' undesirable behaviours: The effects of teaching experience, pupils' age, sex and ability stream. *British Journal of Educational Psychology*, 60, 220-226.
- Borg, W. & Gall, M. (1989). *Educational research: An introduction* (5th ed.). New York: Longman.
- Boyle, G., Borg, M., Falzon, J., & Baglioni, A. (1995). A structural model of the dimensions of teacher stress. *British Journal of Educational Psychology*, 65, 49-67.
- Brenner, S., Sorbom, D., & Wallius, E. (1985). The stress chain: A longitudinal confirmatory study of teacher stress, coping and social support. *Journal of Occupational Psychology*, 58, 1-13.
- Brophy, J. (1981). Teacher praise: A functional analysis. *Review of Educational Research*, 51, 5-32.
- Brophy, J. (1985a). Classroom organisation and management. *Phi Delta Kappa*, 5, 2-17.
- Brophy, J. (1985b). Male and female teacher-student interaction. In L.C. Wilkinson & C.B. Marrett (Eds.), *Gender influences in classroom interaction* (pp. 115-142). Orlando, FL: Academic Press, Inc.
- Brophy, J., & Good, T. (1970). Teachers' communications of differential expectations for children's classroom performance: Some behavioural data. *Journal of Educational Psychology*, 61, 365-374.
- Brophy, J., & Good, T. (1974). *Teacher-student relationships: Causes and consequences*. New York: Holt, Rinehart & Winston.
- Bryer, F., Beamish, W., Davies, M., Marshall, R., Wilson, L., & Caldwell, W. (2005). The first step to school-wide positive behavioural support in a Queensland high school: Laying the foundation for participation. *Special Education Perspectives*, 14(2), 26-45.
- Burke, C., Jarman, K., & Whitmore, L. (1994). Disruptive and antisocial behaviour in primary schooling: Foci for professional development and community education. *Journal of Teaching Practice*, 14, 1-16.

- Burnett, P. (2002). Teacher praise and feedback and students' perceptions of the classroom environment. *Educational Psychology*, 22, 5-16.
- Burroughs, G. (1975). *Design and analysis in educational research*. (2nd ed.). Oxford: Educational Review.
- Capel, S. (1987). The incidence of and influences on stress and burnout in secondary school teachers. *British Journal of Educational Psychology*, 57, 279-288.
- Carnine, D. (1997). Bridging the research-to-practice gap. *Exceptional Children*, 63, 513-521.
- Chall, J. (2000). *The achievement challenge*. New York: Guilford Press.
- Charlton, T., Lovemore, T., Essex C., & Crowie, B. (1995). Naturalistic rates of teacher approval and disapproval and on-task behaviour in first and middle school classrooms in St. Helena. *Journal of Social Behaviour and Personality*, 10, 817-826.
- Chazan, M. (1994). The attitudes of mainstream teachers towards pupils with emotional and behavioural difficulties. *European Journal of Special Needs Education*, 9, 261-274.
- Chazan, M., & Jackson, S. (1971). Behaviour problems in the infant school. *Journal of Child Psychology and Psychiatry*, 12, 191-210.
- Chazan, M., & Jackson, S. (1974). Behaviour problems in the infant school: Changes over two years. *Journal of Child Psychology and Psychiatry*, 15, 33-46.
- Commonwealth Government of Australia. (2003). *Educating boys: Issues and information*. Canberra: AGPS.
- Connell, R. (1995). *Masculinities*. Sydney: Allen & Unwin.
- Conway, R., Tierney, J., & Schofield, N. (1990). Coping with behaviour problems in NSW high schools. In S. Richardson & J. Tizard (Eds.), *Practical approaches to resolving behaviour problems* (pp. 53-59). Hawthorn: ACER.
- Cooper C. (1995). Life at the chalkface – identifying and measuring teacher stress. *British Journal of Educational Psychology*, 65, 69-71.

- Craft, M., Alber, S., & Heward, W. (1998). Teaching elementary students with developmental disabilities to recruit teacher attention in a general education classroom: Effect on teacher praise and academic productivity. *Journal of Applied Behavior Analysis*, 31, 399-415.
- Crawford, G. (1993). *A study of the types and frequency of disruptive behaviours and the types and frequency of verbal and physical abuse directed towards teachers by students in inner western Sydney high schools*. Unpublished master's thesis, Macquarie University, Sydney, New South Wales, Australia.
- Croll, P. (1985). Teacher interaction with male and female pupils in junior classrooms. *Educational Research*, 27, 220-223.
- Croll, P., & Moses, D. (1985). *One in five*. London: Routledge and Kegan Paul.
- Dart, B., & Clarke, J. (1988). Sexism in schools: A new look. *Educational Review*, 40, 41-49.
- Department of Education and Science. (1989). *Discipline in schools* (The Elton Report). London: HMSO.
- Dorman, J. (2002). Classroom environment research: Progress and possibilities. *Queensland Journal of Educational Research*, 18, 112-140.
<http://education.curtin.edu.au/iier/qjer/qjer18/dorman.html>
- Ferguson, E., & Houghton, S. (1992). The effects of contingent teacher praise, as specified by Canter's Assertive Discipline Programme, on children's on-task behaviour. *Educational Studies*, 18, 83-93.
- Ferguson, G. (1981). *Statistical analysis in psychology and education* (5th ed.). London: McGraw-Hill.
- Fields, B. (1986). The nature and incidence of classroom behaviour problems and their remediation through preventative management. *Behaviour Change*, 3, 53-57.
- Fields, B. (2000). School discipline: Is there a crisis in our schools? *Australian Journal of Social Sciences*, 35, 73-86.
- Fisher, D., & Fraser, B. (1983). A comparison of actual and preferred classroom environment as perceived by science teachers and students. *Journal of Research in Science Teaching*, 20, 55-61.

- Fisher, D., & Kent, H. (1998). Associations between teacher personality and classroom environment. *Journal of Classroom Interaction*, 33, 5-13.
- Flora, S. (2000). Praise's magic reinforcement ratio: Five to one gets the job done. *The Behavior Analyst Today*, 1 (4), 64-69.
- Francis, B. (1999). Lads, lasses, and new labour: 14-16-year-old students' responses to the 'laddish behaviour and boys' underachievement' debate. *British Journal of Sociology of Education*, 20, 355-372.
- Francis, B. (2000). *Boys, girls and achievement: Addressing the classroom issues*. London: RoutledgeFalmer.
- Fraser, B. (1982). Differences between student and teacher perceptions of actual and preferred classroom learning environment. *Educational Evaluation and Policy Analysis*, 4, 511-519.
- Fraser, B. (1986). *Classroom environment*. London: Croom Helm.
- Fraser, B. (1990). *Individualised Classroom Environment Questionnaire*. Melbourne, Australia: Australian Council for Educational Research.
- Fraser, B. (1998). Classroom environment instruments: Development, validity and applications. *Learning Environments Research*, 1, 7-33.
- French, J., & French, P. (1984). Gender imbalance in the primary classroom: An interactional account. *Educational Research*, 26, 127-136.
- Fry, P. S. (1983). Process measures of problem and non-problem children's classroom behaviour: The influence of teacher behaviour variables. *British Journal of Educational Psychology*, 53, 79-88.
- Galton, M., Hargreaves, L., Comber, C., Wall, D., & Pell, A. (1999a). Changes in patterns of teacher interaction in primary classrooms: 1976-96. *British Educational Research Journal*, 25, 23-37.
- Galton, M., Hargreaves, L., Comber, C., Wall, D., & Pell, A. (1999b). *Inside the primary classroom: 20 years on*. Routledge: London.

- Gorard, S. (2002). The role of secondary data in combining methodological approaches. *Educational Review*, 54, 231-237.
- Greene, R., Abidin, R., & Kmetz, C. (1997). The index of teaching stress: A measure of student-teacher compatibility. *Journal of School Psychology*, 35, 239-159.
- Hammersley, M. (1990). An evaluation of two studies of gender imbalance in primary classrooms. *British Educational Research Journal*, 16, 125-143.
- Haroun, R., & O'Hanlon, C. (1997). Teachers' perceptions of discipline problems in a Jordanian secondary school. *Pastoral Care*, June, 29-36.
- Harris, J., Tyre, C., & Wilkinson, C. (1993). Using the Child Behaviour Checklist in ordinary primary schools. *British Journal of Educational Psychology*, 63, 245-260.
- Harrop, A., & Swinson, J. (2000). Natural rates of approval and disapproval in British infant, junior and secondary classrooms. *British Journal of Educational Psychology*, 70, 473-483.
- Hart, B., & Risley, T. (1995). *Meaningful differences*. Baltimore, MD: Paul H Brookes.
- Hart, P., Wearing, A., & Conn, M. (1995). Conventional wisdom is a poor predictor of the relationship between discipline policy, student misbehaviour and teacher stress. *British Journal of Educational Psychology*, 65, 27-48.
- Hartley, D. (1979). Sex differences in classroom behaviour in infants schools: The views of teachers and pupils. *British Journal of Educational Psychology*, 49, 188-193.
- Hattie, J. (1992). Measuring the effects of schooling. *Australian Journal of Education*, 36, 5-13.
- Heller, M., & White, M. (1975). Rates of teacher approval and disapproval to higher and lower ability classes. *Journal of Educational Psychology*, 67, 796-800.
- Herrera, M., & Little, E. (2005). Behaviour problems across home and kindergarten in an Australian sample. *Australian Journal of Educational and Developmental Psychology*, 5, 77-90.
- Ho, C., & Leung, J. (2002). Disruptive classroom behaviours of secondary and primary school students. *Educational Research Journal*, 17, 219-233.

- Houghton, S. (1988). *Classroom behaviour management in British secondary school contexts: An applied behaviour analytic perspective*. Unpublished doctoral dissertation, University of Birmingham, Birmingham.
- Houghton, S., Wheldall, K., & Merrett, F. (1988). Classroom behaviour problems which secondary school teachers say they find most troublesome. *British Educational Research Journal*, 14, 297-312.
- House of Representatives Standing Committee on Education and Training (2002). Report of the inquiry into the education of boys, *Boys: Getting it right*. Canberra: Commonwealth Government.
- Howe, C. (1997). *Gender and classroom interaction: A research review*. Edinburgh: The Scottish Council for Research in Education.
- Howell, D. (1997). *Statistical methods for psychology*. (4th ed.). Bemont, CA: Wadsworth.
- Huberman, A., & Vandenburg, R. (1999). Burnout and the teaching profession. In A. Huberman & R. Vandenburg (Eds.). *Understanding and preventing teacher burnout – a sourcebook of international research and practice* (Introduction). Cambridge, UK: Cambridge University Press.
- Infantino, J., & Little, E. (2005). Students' perceptions of classroom behaviour problems and the effectiveness of different disciplinary methods. *Educational Psychology*, 25, 491-508.
- Irvine, J. (1986). Teacher-student interactions: Effects of student race, sex, and grade level. *Journal of Educational Psychology*, 78, 14-21.
- Jacob, A. (2005). The Australian Association of Special Education 2004 National Conference Des English Memorial Lecture 'Behaviour – whose choice?', *The Australasian Journal of Special Education*, 29, 4-20.
- Jenson, W., Olympia, D., Farley, M., & Clark, E. (2004). Positive psychology and externalising students in a sea of negativity. *Psychology in the Schools*, 41, 67-79.
- Johnson, B., Oswald, M., & Adey, K. (1993). Discipline in South Australian primary schools. *Educational Studies*, 19, 289-305.

- Jones, K., Charlton, T., & Wilkin, J. (1995). Classroom behaviours which first and middle school teachers in St Helena find troublesome. *Educational Studies*, 21, 139-153.
- Kamphaus, R., Huberty, C., Distephano, C., & Petoskey, M. (1997). A typology of teacher-rated child behavior for a national US sample. *Journal of Abnormal Child Psychology*, 25, 453-463.
- Kann, R., & Hanna, F. (2000). Disruptive behaviour disorders in children and adolescents: How do girls differ from boys? *Journal of Counseling and Development*, 78, 267-274.
- Kavale, K., & Reese, J. (1992). The character of learning disabilities: An Iowa profile. *Learning Disabilities Quarterly*, 15, 74-94.
- Kazdin, A. (1995). *Conduct disorders in childhood and adolescence* (2nd ed.). Thousand Oaks, CA: Sage.
- Kelly, A. (1988). Gender differences in teacher-pupil interactions: A meta-analytic review. *Research in Education*, 39, 1-24.
- Kyriacou, C. (1987). Teacher stress and burnout: An international review. *Educational Research*, 29, 146-152.
- Kyriacou, C. (2001). Teacher stress: Directions for future research. *Educational Review*, 53, 29-35.
- Kyriacou, C., & Roe, H. (1988). Teachers' perceptions of pupils' behaviour at a comprehensive school. *British Educational Research Journal*, 14, 167-73.
- Kyriacou, C., & Sutcliffe, J. (1978). Teacher stress: Prevalence, sources, and symptoms. *British Journal of Educational Psychology*, 48, 158-167.
- Kyriacou, C., & Sutcliffe, J. (1979). Teacher stress and satisfaction. *Educational Research*, 2, 89-96.
- Landrum, T. (1997). Why data don't matter. *Journal of Behavioral Education*, 7, 123-129.

- Langdon, C. (1997, November). The fourth Phi Delta Kappa poll of teachers' attitudes towards the public schools. *The Phi Delta Kappan*, 212-220.
- Lawrence, J., & Steed, D. (1986). Primary school perception of disruptive behaviour. *Educational Studies*, 12, 147-157.
- Lerner, J. (1993). *Learning disabilities: Theories, diagnosis and teaching strategies*. Boston: Massachusetts Department of Education.
- Leung, J., & Ho, C. (2001). Disruptive behaviour perceived by Hong Kong primary school teachers. *Educational Research Journal*, 16, 223-237.
- Little, E. (2005). Secondary school teachers' perceptions of students' problem behaviours. *Educational Psychology*, 25, 369-377.
- Little, E., Hudson, A., & Wilks, R. (2000). Conduct problems across home and school, *Behaviour Change*, 17, 69-77.
- Maag, J. (2001). Rewarded by punishment: Reflections on the disuse of positive reinforcement in schools. *Exceptional Children*, 67, 173-186.
- MacAulay, D. (1990). Classroom environment: A literature review. *Educational Psychology*, 10, 239-253.
- Madsen C., Becker, W., & Thomas, D. (1968). Rules, praise, and ignoring elements of elementary classroom control. *Journal of Applied Behavior Analysis*, 1, 139-150.
- Maliphand, R., Watkins, C., & Davies, J. (2003). Disruptive behaviour in non-referred mainstream school children, aged seven to nine: A psychophysiological contribution, *Educational Psychology*, 24, 437-455.
- Maliphand, R., Watson, S., & Daniels, D. (1990). Disruptive behaviour in school, personality characteristics and heart rate (HR) levels in 7- to 9-year-old boys. *Educational Psychology*, 10, 199-205.
- Martino, W., & Berrill, D. (2003). Boys, schooling and masculinities: Interrogating the 'Right' way to educate boys. *Educational Review*, 55, 99-117.

- McGee, R., Sylva, P., & Williams, S. (1984). Behaviour problems in a population of seven year old children: Prevalence, stability and types of disorder: A research report. *Journal of Child Psychiatry*, 25, 251-259.
- McNamara, E. (1985). Are the techniques of behaviour modification relevant to problems of concern to teachers in secondary schools?, *Behavioural Approaches with Children*, 9, 34-45.
- McNamara, E. (1987). Behavioural approaches in the secondary school. In Wheldall, K. (Ed.) *The behaviourist in the classroom* (2nd Edition) (pp. 50-68). London: Allen and Unwin.
- Merrett, F. (1981). Studies in behaviour modification in British educational settings. *Educational Psychology*, 2, 147-57.
- Merrett, F., & Blundell, D. (1982). Self-recording as a means of improving classroom behaviour in the secondary school. *Educational Psychology*, 2, 147-157.
- Merrett, F., & Taylor, B. (1994). Behaviour problems in the nursery. *Educational Review*, 46, 287-295.
- Merrett, F., & Wheldall, K. (1984). Classroom behaviour problems which junior primary school teachers find most troublesome. *Educational Studies*, 10, 87-92.
- Merrett, F., & Wheldall, K. (1986). Observing Pupils and Teachers In Classrooms (OPTIC): A behavioural observation schedule for use in schools. *Educational Psychology*, 6, 57-70.
- Merrett, F., & Wheldall, K. (1987a). British teachers and the behavioural approach to teaching. In Wheldall, K. (Ed.) *The behaviourist in the classroom* (2nd Edition) (pp. 18-49). London: Allen and Unwin.
- Merrett, F., & Wheldall, K. (1987b). Natural rates of teacher approval and disapproval in British primary and middle school classrooms. *British Journal of Educational Psychology*, 57, 95-103.
- Merrett, F., & Wheldall, K. (1988). Case studies in Positive Teaching 11: more examples showing behavioural strategies in action at the secondary level. *Behavioural Approaches with Children*, 12, 25-35.

- Merrett, F., & Wheldall, K. (1990). *Positive Teaching in the primary school*. London: Paul Chapman.
- Merrett, F., & Wheldall, K. (1992). Teachers' use of praise and reprimands to boys and girls. *Educational Review*, 44, 73-79.
- Mertin, P., & Wasyluk, G. (1994). Behaviour Problems in the School: Incidence and interpretation. *The Australian Educational and Developmental Psychologist*, 11(2), 32-39.
- Mirkin, P., Marsten, D., & Deno, S. (1982). *Direct and repeated measurement of academic skills: an alternative to traditional screening, referral, and identification of learning disabled students*. (Research Report 75). Minneapolis: University of Minnesota, Institute for Research on Learning Disabilities.
- Montague, M., & Rinaldi, C. (2001). Classroom dynamics and children at risk: a follow-up. *Learning Disability Quarterly*, 24, 75-83.
- Moos, R. (1974). *The Social Climate Scales: an overview*. Palo Alto, CA: consulting Psychologists Press.
- Moos, R. (1979). *Evaluating educational environments: procedures, measures, findings and policy implications*. San Fransisco: Jossey-Bass.
- More learning time lost through disruptive behaviour. (2002, Term 4) *Education Today*, 1, 7.
- Myhill, D. (2002). Bad boys and good girls? Patterns of interaction and response in whole class teaching. *British Educational Research Journal*, 28, 340-352.
- Nafpaktitis, M., Mayer, G. R., & Butterworth, T. (1985). Natural rates of teacher approval and disapproval and their relation to student behaviour in intermediate school classrooms. *Journal of Educational Psychology*, 77, 363-367.
- NAS/UWT. (1986). *Pupil violence and serious disorder in schools*. Rednal: National Association of Schoolmasters and Union of Women Teachers.
- Nicholls, D., & Houghton, S. (1995). The effect of Canter's Assertive Discipline Program on teacher and student behaviour. *British Journal of Educational Psychology*, 65, 197-210.

- Nicholls, D., Houghton, S., & Bain, A. (1991). Teacher reports of troublesome behaviour in West Australian high schools. Unpublished manuscript, Department of Education, University of Western Australia.
- Oswald, M. (1995). Difficult to manage students: a survey of children who fail to respond to student discipline strategies in government school. *Educational Studies*, 21, 265-276.
- Pomeroy, E. (1999). The teacher-student relationship in secondary school: Insights from excluded students. *British Journal of Sociology of Education*, 20, 465-482.
- Poulou, M., & Norwich, B. (2000). Teachers' perceptions of students with emotional and behavioural difficulties: Severity and prevalence. *European Journal of Special Needs Education*, 15, 171-187.
- Ridley, D., & Walther, B. (1995). *Creating responsible learners: The role of a positive classroom environment*. Washington DC: American Psychological Society.
- Ritter, D. (1989). Teachers' perceptions of problem behavior in general and special education. *Exceptional Children*, 55, 559-564.
- Rosenshine, B. (1971). *Teaching behaviours and student achievement*. New York: Prentice Hall.
- Russell, A., & Lin, L. (1977). Teacher attention and classroom behaviour. *The Exceptional Child*, 24, 148-155.
- Safran, S., & Oswald, K. (2003). Positive behaviour supports: Can schools reshape disciplinary practices? *Exceptional Children*, 69, 361-373.
- Safran, S., & Safran, J. (1985). Classroom context and teachers' perceptions of problem behaviors. *Journal of Educational Psychology*, 77, 20-28.
- Schwieso, J., & Hastings, N. (1987). Teachers' use of approval. In N. Hastings & J. Schwieso (Eds.), *New directions in educational psychology, Vol 2: Behaviour and motivation in the classroom* (pp. 115-136). London: Falmer.
- Shores, R., Gunter, P., & Jack, S. (1993). Classroom management strategies: Are they setting events for coercion? *Behavioral Disorders*, 18, 92-102.

- Skårbrevik, K. (2002). Gender differences among students found eligible for special education. *European Journal of Special Needs Education*, 17, 97-107.
- Skeggs, B. (1997). *Formations of class and gender*. London: Sage.
- Skelton, C. (2001). *Schooling the boys: Masculinities and primary education*. Buckingham: Open University Press.
- Skelton, C., & Francis, B. (2003). Introduction: Boys and girls in the primary classroom. In C. Skelton & Becky Francis (Eds.), *Boys and girls in the primary classroom* (pp. 3-25). Berkshire: Open University Press.
- Skinner, M., & Hales, M. (1992). Classroom teachers' "explanations" of student behavior: One possible barrier to the acceptance and use of applied behavior analysis procedures in the schools. *Journal of Educational and Psychological Consultation*, 3, 219-232.
- Smilansky, J. (1984). External and internal correlates of teachers' satisfaction and willingness to report stress. *British Journal of Educational Psychology*, 54, 84-92.
- Spender, D. (1982a). *Invisible women: The schooling scandal*. London: Writers and Readers Publishing Cooperative.
- Spender, D. (1982b). The role of teachers: What choices do they have? In Council of Europe (Ed.), *Sex stereotyping in schools* (pp. 50-62). Lisse, Swets & Zeitlinger.
- Stephenson, J., Linfoot, K., & Martin, A. (2000). Behaviours of concern to teachers in the early years of school. *International Journal of Disability, Development and Education*, 47, 225-235.
- Stevenson, J., Richman, N., & Graham, P. (1985). Behaviour problems and language abilities at three years and behavioural deviance at eight years. *Journal of Child Psychology and Psychiatry*, 26, 215-230.
- Strain, P., Lambert, D., Kerr, M., Stagg, V., & Lenkner, D. (1983). Naturalistic assessment of children's compliance to teachers' requests and consequences for compliance. *Journal of Applied Behavior Analysis*, 16, 243-249.
- Strout, M. (2005). Positive behavioural support at the classroom level: Considerations and strategies. *Beyond Behavior*, 14 (2), 3-8.

- Stuart, H. (1994). Teacher perceptions of student behaviours: A study of NSW secondary teachers' attitudes. *Educational Psychology, 14*, 217-230.
- Sutherland, K., & Copeland, S. (2001). The effect of self-evaluation on teaching behaviour in classrooms for students with emotional and behavioural disorders. *The Journal of Special Education, 35*, 161-171.
- Sutherland, K., Copeland, S. & Wehby, S. (2001). Catch them while you can: Monitoring and increasing the use of effective praise. *Beyond Behavior, 11*(1), 46-49.
- Swann, J., & Graddol, D. (1988). Gender inequalities in classroom talk. *English in Education, 22*, 48-65.
- Swinson, J., & Harrop, A. (2001). The differential effects of teacher approval and disapproval in junior and infant classrooms. *Educational Psychology in Practice, 17*, 157-166.
- Swinson, J., & Harrop, A. (2005). An examination of the effects of a short course aimed at enabling teachers in infant, junior and secondary schools to alter the verbal feedback given to their pupils. *Educational Studies, 31*, 115-129.
- Swinson, J., Woof, C., & Melling, R. (2003). Including emotional and behavioural difficulties pupils in a mainstream comprehensive: A study of the behaviour of pupils and classes. *Educational Psychology in Practice, 19*, 65-75.
- Thomas, D., Becker, W., & Armstrong, M. (1968). Production and elimination of disruptive classroom behavior by systemically varying teacher's behaviour. *Journal of Applied Behavior Analysis, 1*, 35-45.
- Thomas, J., Presland, I., Grant, M., & Glynn, T. (1978). Natural rates of teacher approval and disapproval in grade 7 classrooms. *Journal of Applied Behavior Analysis, 11*, 91-94.
- Thompson, B. (1999). Improving research clarity and usefulness with effect size indices as supplements to statistical significance tests. *Exceptional Children, 65*, 329-337.
- Trent, F., & Slade, M. (2001). *Declining rates of achievement and retention: The perceptions of adolescent males* (DETYA No.6705 HERC01A). Canberra: Department of Education Training and Youth Affairs, Commonwealth of Australia.

- Trickett, E., Leone, P., Fink, C., & Braaten, B. (1993). The perceived environment of special education classrooms for adolescents: A revision of the classroom environment scale. *Exceptional Children*, 59, 411-420.
- Vogel, S. (1990). Gender differences in intelligence, language, visual-motor abilities, and academic achievement in students with learning disabilities: A review of the literature. *Journal of Learning Disabilities*, 23, 44-52.
- Walker, H., Colvin, G., & Ramsey, E. (1995). *Antisocial behavior in schools: Strategies and best practices*. Pacific Grove, CA: Brooks/Cole.
- Walker, H., Severs, H., Stiller, B., Williams, G., Haring, N., Shin, M., et al. (1988). Systematic screening of pupils in the elementary age range at risk for behavior disorders: Development and trial of a multiple gating model. *Remedial and Special Education*, 9(3), 8-14.
- Ward, J. (1971). Modification of deviant classroom behaviour. *British Journal of Educational Psychology*, 41, 304-313.
- Warrington, M., & Younger, M. (2000). The other side of the gender gap. *Gender and Education*, 12, 493-508.
- Webster-Stratton, C. (1996). Early on-set conduct problems: Does gender make a difference? *Journal of Consulting and Clinical Psychology*, 64, 540-551.
- Wheldall, K. (1991). Managing troublesome classroom behaviour in regular schools: A Positive Teaching perspective. *International Journal of Disability, Development and Education*, 38, 99-116.
- Wheldall, K. (2005). When will we ever learn? *Educational Psychology*, 25, 573-584.
- Wheldall, K., & Beaman, R. (1993). The Individualised Classroom Environment Questionnaire: Confirmatory findings. *Australian Educational and Developmental Psychologist*, 10, 6-8.
- Wheldall, K., & Beaman, R. (1994). An evaluation of the WINS (Working Ideas for Need Satisfaction) training package. Report submitted to the New South Wales Department of School Education, 1993. Special Education Centre, Macquarie University. *Collected Original Resources in Education*, 18 (1), fiche 4 E01.

- Wheldall, K., Beaman, R., & Mok, M. (1999). Does the Individualised Classroom Environment Questionnaire (ICEQ) measure classroom climate? *Educational and Psychological Measurement*, 59, 847-854.
- Wheldall, K., & Carter, M. (1996). Reconstructing behaviour analysis in education: A revised behavioural interactionist perspective for special education. *Educational Psychology*, 16, 121-140.
- Wheldall, K., & Glynn, T. (1989). *Effective classroom learning: A behavioural interactionist approach to teaching*. Oxford: Basil Blackwell.
- Wheldall, K., Houghton, S., & Merrett, F. (1989). Natural rates of teacher approval and disapproval in British secondary school classrooms. *British Journal of Educational Psychology*, 59, 38-48.
- Wheldall, K., & Limbrick, L. (2005). "I can hardly believe it has turned out like this": A lighthouse school for boys' education. *Education Today*, 55, 4-13.
- Wheldall, K., & Merrett, F. (1984). *Positive Teaching: The behavioural approach*. London: Allen and Unwin.
- Wheldall, K., & Merrett, F. (1985). Reducing troublesome classroom behaviour in the secondary school: The behavioural approach. *Maladjustment and Therapeutic Education*, 3, 37-46.
- Wheldall, K., & Merrett, F. (1987a). What is the behavioural approach to teaching? In Hastings, N. & Schweiso, J. (eds). *New directions in educational psychology 11: behaviour and motivation* (pp. 167-190). London: Falmer Press.
- Wheldall, K., & Merrett, F. (1987b). Training teachers to use the behavioural approach to classroom management: the development of BATPACK. In Wheldall, K. (ed.). *The behaviourist in the classroom* (pp. 130-168). London: Allen & Unwin.
- Wheldall, K., & Merrett, F. (1988). Which classroom behaviours do primary school teachers say they find most troublesome? *Educational Review*, 40, 13-27.
- Wheldall, K., & Merrett, F. (1988b). Packages for training teachers in classroom behaviour management: BATPACK, BATSAC, and the Positive Teaching Packages. *Support for Learning*, 3, 86-92.

- Wheldall, K., & Merrett, F. (1989). *Positive Teaching in the secondary school*. London: Paul Chapman.
- Wheldall, K., & Panagopoulou-Stamatelatou, A. (1989). The effect of pupils self-recording of on-task behaviour in primary classes. *British Educational Research Journal* 17, 113-127.
- White, M.A. (1975). Natural rates of teacher approval and disapproval in the classroom. *Journal of Applied Behavior Analysis*, 8, 367-372.
- White, M.A., Beecher, R., Heller, M., & Waters, V. (1973). *TAD: Teacher Approval and Disapproval Observation Record: directions for use of TAD*. New York: Teachers College, Columbia University.
- Whitmore, K., & Bax, M. (1984). Who to treat, who to refer? *Association for Child Psychology Newsletter*, 6(2), 33-34.
- Wickman, E. K. (1928a). Teachers' list of undesirable forms of behaviour. In P. Williams (Ed.) (1974). *Behaviour problems in school* (pp. 6-15). London: University of London Press (reprinted from Children's behaviour and teachers' attitudes, New York, Commonwealth Fund).
- Wickman, E. K. (1928b). Teachers' reactions to behaviour problems in children. In P. Williams (Ed.) (1974). *Behaviour problems in school* (pp. 16-38). London: University of London Press (reprinted from Children's behaviour and teachers' attitudes, New York, Commonwealth Fund).
- Winter, S. (1990). Teacher approval and disapproval in Hong Kong secondary school classrooms. *British Journal of Educational Psychology*, 60, 88-92.
- Wittrock, M. (1986). Students' thought processes. In M.C. Wittrock (ed.), *Handbook of research on teaching* (3rd ed.) (pp. 297-314). New York: Macmillan.
- Wyatt, W., & Hawkins, R. (1987). Rates of teachers' verbal approval and disapproval: Relationship to grade level, classroom activity, student behavior, and teacher characteristics. *Behavior Modification*, 11, 27-51.
- Yates, L. (1997). Gender equity and the boys debate: What sort of challenge is it? *British Journal of Sociology of Education*, 18, 337-347.

- Younger, M., & Warrington, M. (1996). Differential achievement of girls and boys at GCSE: some observations from the perspective of one school. *British Journal of Sociology of Education*, 17, 299-313.
- Younger, M., Warrington, M., & Williams, J. (1999). The gender gap and classroom interactions: reality and rhetoric? *British Journal of Sociology of Education*, 20, 325-341.
- Ysseldyke, J., Thurlow, M., Graden, J., Wesson, K., Algozzine, B., & Deno, S. (1983). Generalisations from five years of research on assessment and decision-making: The University of Minnesota Institute. *Exceptional Children Quarterly*, 4, 75-93.
- Ziv, A. (1970). Children's behaviour problems as viewed by teachers, psychologists and children. *Child Development*, 41, 871-879.

APPENDICES

APPENDIX A: DEMOGRAPHIC DETAILS FOR ALL VARIABLES ANALYSED BY GENDER OF THE RESPONDENT (TEACHER GENDER)	478
APPENDIX B: CLASSROOM BEHAVIOUR PROBLEMS CHECKLIST AND QUESTIONNAIRE	480
APPENDIX C: TEACHER STRESS AND CLASSROOM TEACHING QUESTIONNAIRE	482
APPENDIX D: FULL DETAILS OF ALL THE DEMOGRAPHIC VARIABLES.....	484
APPENDIX E: SEX OF THE MOST TROUBLESOME STUDENT ANALYSED BY TEACHER AGE	487
APPENDIX F: SEX OF THE MOST TROUBLESOME STUDENT ANALYSED BY TEACHER EXPERIENCE	488
APPENDIX G: SEX OF THE MOST TROUBLESOME STUDENT ANALYSED BY YEAR TAUGHT	489
APPENDIX H: SEX OF THE MOST TROUBLESOME STUDENT ANALYSED BY SUBJECT TAUGHT	490
APPENDIX I: QUESTION 4 E & F (BEHAVIOURS OF THE NEXT MOST TROUBLESOME STUDENT)	491
APPENDIX J: CONSTRUCTED VARIABLE (LOW/MODERATE-HIGH INCIDENCE OF TROUBLESOME BEHAVIOUR AND TEACHER DEMOGRAPHICS	493
APPENDIX K: <i>ICEQ</i> SCALE	496
APPENDIX L: <i>OPTIC</i> SCHEDULE AND INSTRUCTIONS.....	499

Appendix A: Demographic Details for All Variables Analysed by Gender of the Respondent (Teacher Gender)

Teacher Age Analysed by Teacher Gender

Years	N	Male	Female
Overall	143*	76	67
<30	31	14	17
30-39	68	34	34
40-49	33	20	13
50-59	11	8	3

Note. * 2 missing values.

Teacher Experience Analysed by Teacher Gender

Years	N	Male	Female
Overall	128*	68	60
First year	9	4	5
1-4	12	7	5
5-10	25	11	14
>10	82	46	36

Note. *17 missing values

Year Taught Analysed by Teacher Gender

Year Taught	N	Male	Female
Overall	140*	74	66
Year 7	23	14	9
Year 8	33	18	15
Year 9	31	15	16
Year 10	26	13	13
Year 11	19	10	9
Year 12	8	4	4

Note. * 5 missing values

Subject Taught Analysed by Teacher Gender

Subject Taught	N	Male	Female
Overall	140*	76	64
English	23	12	11
Mathematics	20	17	3
Science	19	15	4
Social Science	19	13	6
Art/Design	29	13	16
Other	30	6	24

Note. 5 missing values

Appendix B: Classroom Behaviour Problems Checklist and Questionnaire

CLASSROOM BEHAVIOUR PROBLEMS CHECKLIST AND QUESTIONNAIRE (Secondary School Version)

Many teachers complain that their job 'wears them out' and probably what contributes most to these feelings of weariness is the fact that teachers find themselves constantly nagging away at forms of student's behaviour which annoy, upset and distress them. We want you to try to identify the aspects of student's behaviour which are most disruptive of good order in the classroom and cause you most trouble. The sorts of behaviour which teachers often comment on are listed below under ten headings. We would like you to read through *all* the ten categories (A-J), *and* the examples given before attempting to answer the questions on the opposite side of this sheet using the category letters in the spaces provided. This task should not take you more than about five minutes. You are asked to complete the questionnaire independently. It is impossible to include categories to suit everyone so please choose those nearest to your viewpoint. Numbers present at the top of this page simply ensure that data from your school is kept together. There is no space for your name so you can be sure that your responses will remain anonymous. Please note that you should relate your responses to *one class you teach most often in your subject speciality*.

Categories of Behaviour

Letter	Category	Some examples of category
A	Verbal abuse	Making offensive or insulting remarks to staff or other pupils likely to lead to confrontation (as distinct from D below)
B	Making unnecessary noise (non-verbal)	Banging objects/doors, scraping chairs, moving clumsily
C	Disobedience	Refusing/failing to carry out instructions or to keep class or school rules
D	Talking out of turn	Calling out, making remarks, interrupting and distracting others by talking/chattering
E	Idleness/slowness	Slow to begin or finish work, small amount of work completed
F	Unpunctuality	Late to school/lessons, late in from recess or lunch break
G	Hindering other children	Distracting others from their work, interfering with their equipment or materials
H	Physical aggression	Poking, pushing, striking others, throwing things
I	Untidiness	In appearance, in written work, in classroom, in desks
J	Out of seat	Getting out of seat without permission, wandering around

Please circle appropriately.

Teacher's age: -- under 30 40 50 60 Sex: -- M F

Subject speciality within school _____

Year of class taught subject speciality most frequently. (If several classes are taught subject speciality equally often, choose *one* and relate all information to this class).

Year 7 Year 8 Year 9 Year 10 Year 11 Year 12

Number of children in class boys [] girls [] total []

How many of these children would you class as troublesome? boys [] girls [] total []

1. In general terms, do you think that you spend more time on problems of order and control than you ought? (please circle)

Yes
[]

No
[]

2. Write down the *two* categories of behaviour you find most troublesome with this class as a whole.

Most troublesome
[]

Next most troublesome
[]

3. Write down the *two* categories of troublesome behaviour you find most frequent with this class as a whole.

Most frequent
[]

Next most frequent
[]

4. All classes have students who are more troublesome than the rest. Indicate the sex of the two most troublesome students in this class and indicate their most troublesome behaviours.

Sex of most troublesome student (please circle)

Boy

Girl

Most troublesome behaviour
[]

Next most troublesome behaviour
[]

Sex of second most troublesome student (please circle)

Boy

Girl

Most troublesome behaviour
[]

Next most troublesome behaviour
[]

Comments:

Appendix C: Teacher Stress and Classroom Teaching Questionnaire

☐☐

TEACHER STRESS AND CLASSROOM TEACHING QUESTIONNAIRE

The following questionnaire seeks to determine the sources and level of any stress you experience associated with your classroom teaching. You may be asked to complete this questionnaire again at a later date. The code numbers present on this questionnaire simply enable data from your school to be kept together. All responses and comments will be treated with complete confidentiality and will only be viewed by the research team. Thank you for your time and input. Your valuable contribution is appreciated.

Please tick the appropriate boxes.

MALE	<input type="checkbox"/>
FEMALE	<input type="checkbox"/>

AGED under 30 years	<input type="checkbox"/>
AGED 30 to 44 years	<input type="checkbox"/>
AGED 45 years or more	<input type="checkbox"/>

TEACHING EXPERIENCE first year	<input type="checkbox"/>
TEACHING EXPERIENCE 1 to 4 years	<input type="checkbox"/>
TEACHING EXPERIENCE 5 to 10 years	<input type="checkbox"/>
TEACHING EXPERIENCE over 10 years	<input type="checkbox"/>

Please turn over.

As a teacher, how great a source of stress are these factors to you? Please tick the most appropriate answer.

POSSIBLE STRESS FACTORS	LEVEL OF STRESS				
	None	Mild	Moderate	Much	Extreme
1. poorly motivated pupils					
2. maintaining class discipline					
3. inadequate disciplinary sanctions available					
4. individual pupils who continually misbehave					
5. generally high noise level					
6. pupils' non-acceptance of teacher authority					
7. pupils who show a lack of interest					
8. punishing pupils					
9. constant monitoring of pupils' behaviour					
10. noisy pupils					
11. trying to uphold/maintain values and standards					
12. pupils' general misbehaviour					
13. pupils' poor attitudes to work					
14. inadequate disciplinary policy of school					
15. pupils' impolite behaviour or cheek					

Appendix D: Full Details of All the Demographic Variables

Responses to Q1 for Total Sample and Analysed by Teacher Gender

Teacher	N	Yes	%
Overall	143*	76	53
Male	75**	43	57
Female	67	32	48

Note. * 2 missing values; ** 2 missing values;
N for teacher gender = 142, 3 missing values.

Responses to Q1 according to Teacher Age

Years	N	Yes	%
Overall	143*	76	53
<30	30	11	37
30-39	69	40	58
40-49	33	21	64
50-59	11	4	36

Note. * 2 missing values

Responses to Q1 according to Teacher Experience

Years	N	Yes	%
Overall	127*	69	54
<5	21	9	43
5-10	24	10	42
>10	82	50	61

Note. * 18 missing values; for the purposes of the Chi-square analysis first year and 1-4 years were combined as the category < 5 years.

Responses to Q1 according to Subject Taught

Subject Taught	N	Yes	%
Overall	139*	76	54
English	23	12	52
Mathematics	20	9	45
Science	17	9	53
Social Science	19	9	47
Art/Design	29	18	62
Other	31	15	48

Note. * 6 missing values

Responses to Q1 According to Year Taught

Year Taught	N	Yes	%
Overall	139*	76	54
Year 7	23	10	43
Year 8	33	21	64
Year 9	30	15	50
Year 10	26	17	65
Year 11/12	27	10	37

Note. * 6 missing values; for the purposes of Chi-square analysis, Years 11 and 12 were combined.

Appendix E: Sex of the Most Troublesome Student Analysed by Teacher Age

Sex of the Most Troublesome Student Analysed by Teacher Age

Years	N	Boy	%
Overall	129*	113	88
<30	28	26	93
30-39	60	54	90
40-49	31	25	81
50-59	10	8	80

Note. * 16 missing values

Appendix F: Sex of the Most Troublesome Student Analysed by Teacher Experience

Sex of the Most Troublesome Student Analysed by Teacher Experience

Years	N	Boy	%
Overall	115*	100	87
First year	9	8	89
1-4	10	10	100
5-10	20	19	95
>10	76	63	83
<i>Note.</i> * 30 missing values			

Appendix G: Sex of the Most Troublesome Student Analysed by Year Taught

Sex of the Most Troublesome Student Analysed by Year Taught

Year Taught	N	Boy	%
Overall	125*	110	88
Year 7	19	18	95
Year 8	30	25	83
Year 9	27	24	89
Year 10	25	24	96
Year 11	17	15	88
Year 12	7	4	57

Note. 20 missing values.

Appendix H: Sex of the Most Troublesome Student Analysed by Subject Taught

Sex of the Most Troublesome Student Analysed by Subject Taught

Subject Taught	<i>N</i>	Boy	%
Overall	125*	109	87
English	22	20	91
Mathematics	18	17	94
Science	13	13	100
Social Science	16	12	75
Art/Design	28	24	86
Other	28	23	82

Note. * 20 missing values

Appendix I: Question 4 e & f (Behaviours of the Next Most Troublesome Student)

Most Troublesome Behaviour of the Next Most Troublesome Student (Question 4e)

Behaviour	<i>N</i>	%
A. Verbal abuse	11	10
B. Non-verbal noise	7	6
C. Disobedience	10	9
D. Talking out of turn	39	35
E. Idleness/slowness	21	19
F. Unpunctuality	6	5
G. Hindering other children	13	12
H. Physical aggression	2	2
I. Untidiness	0	0
J. Out of Seat	2	2

Note. *N* = 111; 34 missing values.

Next Most Troublesome Behaviour of the Most Troublesome Student (Question 4f)

Behaviour	<i>N</i>	%
A. Verbal abuse	6	6
B. Non-verbal noise	4	4
C. Disobedience	13	13
D. Talking out of turn	19	19
E. Idleness/slowness	26	25
F. Unpunctuality	18	18
G. Hindering other children	13	12
H. Physical aggression	3	3
I. Untidiness	1	1
J. Out of Seat	8	8

Note. *N* = 102; 43 missing values.

Appendix J: Constructed Variable (Low/Moderate-high Incidence of Troublesome Behaviour and Teacher Demographics

Note: In the following tables, low incidence troublesome classroom behaviour is defined as less than 10% of the class as behaviourally troublesome; moderate-high is 10% or more of the class as being behaviourally troublesome.

Low Incidence/ Mod-High Incidence Troublesome Classroom Behaviour Analysed by Teacher Gender

Sex	N	Low (%)	Mod-High (%)
Male	72	33 (46%)	39 (54%)
Female	61	16 (26%)	45 (74%)
Total	133*	49	84

Note. * 12 missing values

Low Incidence/ Mod-High Incidence Troublesome Classroom Behaviour Analysed by Teacher Age

Years	N	Low (%)	Mod-High (%)
<30	29	12 (41%)	17 (59%)
30-39	66	26 (40%)	40 (61%)
40-49	29	6 (21%)	23 (79%)
50-59	10	5 (50%)	5 (50%)
Total	134	49 (37%)	85 (63%)

Note. * 11 missing values

Low Incidence/ Mod-High Incidence Troublesome Classroom Behaviour Analysed by Teacher Experience

Years	N	Low(%)	Mod-High (%)
<5 years	20	9 (45%)	11 (55%)
5-10	22	10 (45%)	12 (55%)
>10	77	21 (27%)	56 (73%)
Total	119*	40 (34%)	79 (66%)

Note. The category 'First year out' and 1-4 years were combined in as one category (< 5 years) for the purposes of the chi-square analysis.

Low Incidence/ Mod-High Incidence Troublesome Classroom Behaviour Analysed by Subject Taught

Subject Taught	N	Low (%)	Mod-High (%)
English	20	6 (30%)	14 (70%)
Maths	20	12 (60%)	8 (40%)
Science	17	8 (47%)	9 (53%)
Social Sc	17	8 (47%)	9 (53%)
Art/Design	26	6 (23%)	20 (77%)
Other	30	9 (30%)	21 (70%)
Total	130	49 (38%)	81 (62%)

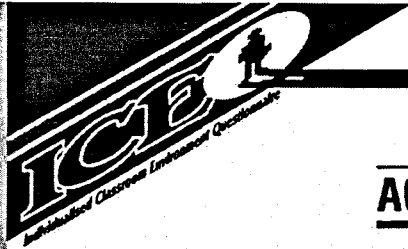
Note. * 15 missing values

Low Incidence/ Mod-High Incidence Troublesome Classroom Behaviour Analysed by Year Taught

Year Taught	Total	Low (%)	Mod-High (%)
Year 7	23	9 (39%)	14 (61%)
Year 8	30	6 (20%)	24 (80%)
Year 9	28	8 (29%)	20 (71%)
Year 10	23	9 (39%)	14 (61%)
Year 11/12	26	16 (62%)	10 (38%)
Total	130*	48 (37%)	82 (63%)

Note. * 15 missing values; Years 11 and 12 have been combined for the purposes of the chi-square analysis.

Appendix K: ICEQ Scale



LONG FORM

ACTUAL CLASSROOM

Directions

This questionnaire contains statements about things which could happen in this classroom. You will be asked **how often** each practice **actually happens**. There is a separate sheet for your answers.

There are no 'right' or 'wrong' answers. Your **opinion** is what is wanted.

Think about how well each statement describes what your actual classroom is like. Draw a circle around the number on the answer sheet:

- 1 — if the practice *actually happens* **almost never**
- 2 — if the practice *actually happens* **seldom**
- 3 — if the practice *actually happens* **sometimes**
- 4 — if the practice *actually happens* **often**
- 5 — if the practice *actually happens* **very often**

Be sure to give an answer for all questions. If you change your mind about an answer, just cross it out and circle the one you want.

Some statements in this questionnaire are fairly similar to other statements. Don't worry about this. Simply give your opinion about all statements.

**PLEASE DO NOT WRITE ON THIS QUESTIONNAIRE.
ALL ANSWERS SHOULD BE GIVEN ON THE SEPARATE
ANSWER SHEET.**

© ACER 1990. This questionnaire may be reproduced in quantities sufficient for classroom use. Permission is hereby granted to the purchaser to make copies in quantities suitable for non-commercial use within the purchasing school or educational establishment only.



LONG FORM

ACTUAL CLASSROOM

How often does this *actually happen* in your classroom?

- | | |
|---|---|
| 1 The teacher considers students' feelings. | 29 Students carry out investigations to answer questions coming from class discussions. |
| 2 Students discuss their work in class. | 30 Students who have finished their work wait for the others to catch up. |
| 3 The teacher decides where students sit. | |
| 4 Students find out the answers to questions from textbooks rather than from investigations. | 31 The teacher remains at the front of the class rather than moving about and talking with students. |
| 5 Students work at their own speed. | 32 Students sit and listen to the teacher. |
| 6 The teacher talks with each student. | 33 The teacher decides which students should work together. |
| 7 The teacher talks rather than listens. | 34 Students explain the meaning of statements, diagrams and graphs. |
| 8 Students choose their partners for group work. | 35 Different students use different books, equipment and materials. |
| 9 Students draw conclusions from information. | |
| 10 All students in the class use the same textbooks. | 36 Students are encouraged to be considerate of other people's ideas and feelings. |
| 11 The teacher takes a personal interest in each student. | 37 Students' ideas and suggestions are used during classroom discussions. |
| 12 Most students take part in discussions. | 38 Students are told what will happen if they break any rules. |
| 13 Students are told exactly how to do their work. | 39 Students carry out investigations to answer questions which puzzle them. |
| 14 Students carry out investigations to test ideas. | 40 Students who work faster than others move on to the next topic. |
| 15 All students in the class do the same work at the same time. | |
| 16 The teacher goes out of his/her way to help each student. | 41 The teacher tries to find out what each student wants to learn about. |
| 17 Students give their opinions during discussions. | 42 Students ask the teacher questions. |
| 18 Students are told how to behave in the classroom. | 43 Students who break the rules get into trouble. |
| 19 Students find out the answers to questions and problems from the teacher rather than investigations. | 44 Investigations are used to answer the teacher's questions. |
| 20 Different students do different work. | 45 The same teaching aid (e.g. blackboard or overhead projector) is used for all students in the class. |
| 21 The teacher is unfriendly to students. | |
| 22 The teacher lectures without students asking or answering questions. | 46 The teacher uses tests to find out where each student needs help. |
| 23 The teacher decides when students are to be tested. | 47 There is classroom discussion. |
| 24 Students are asked to think about the evidence behind statements. | 48 The teacher decides how much movement and talk there should be in the classroom. |
| 25 Different students use different tests. | 49 Students solve problems by obtaining information from the library. |
| 26 The teacher helps each student who is having trouble with the work. | 50 All students are expected to do the same amount of work in the lesson. |
| 27 Students are asked questions. | |
| 28 Students are punished if they behave badly in class. | |



LONG FORM

ACTUAL CLASSROOM: Answer Sheet

REMEMBER: You are rating what *actually happens* in your classroom

ALMOST NEVER SELDOM SOMETIMES OFTEN VERY OFTEN					ALMOST NEVER SELDOM SOMETIMES OFTEN VERY OFTEN					ALMOST NEVER SELDOM SOMETIMES OFTEN VERY OFTEN					ALMOST NEVER SELDOM SOMETIMES OFTEN VERY OFTEN					ALMOST NEVER SELDOM SOMETIMES OFTEN VERY OFTEN					TEACHER USE ONLY
1 ... 1 2 3 4 5	11 ... 1 2 3 4 5	21 ... 1 2 3 4 5	31 ... 1 2 3 4 5	41 ... 1 2 3 4 5	2 ... 1 2 3 4 5	12 ... 1 2 3 4 5	22 ... 1 2 3 4 5	32 ... 1 2 3 4 5	42 ... 1 2 3 4 5	3 ... 1 2 3 4 5	13 ... 1 2 3 4 5	23 ... 1 2 3 4 5	33 ... 1 2 3 4 5	43 ... 1 2 3 4 5	4 ... 1 2 3 4 5	14 ... 1 2 3 4 5	24 ... 1 2 3 4 5	34 ... 1 2 3 4 5	44 ... 1 2 3 4 5	5 ... 1 2 3 4 5	15 ... 1 2 3 4 5	25 ... 1 2 3 4 5	35 ... 1 2 3 4 5	45 ... 1 2 3 4 5	
6 ... 1 2 3 4 5	16 ... 1 2 3 4 5	26 ... 1 2 3 4 5	36 ... 1 2 3 4 5	46 ... 1 2 3 4 5	7 ... 1 2 3 4 5	17 ... 1 2 3 4 5	27 ... 1 2 3 4 5	37 ... 1 2 3 4 5	47 ... 1 2 3 4 5	8 ... 1 2 3 4 5	18 ... 1 2 3 4 5	28 ... 1 2 3 4 5	38 ... 1 2 3 4 5	48 ... 1 2 3 4 5	9 ... 1 2 3 4 5	19 ... 1 2 3 4 5	29 ... 1 2 3 4 5	39 ... 1 2 3 4 5	49 ... 1 2 3 4 5	10 ... 1 2 3 4 5	20 ... 1 2 3 4 5	30 ... 1 2 3 4 5	40 ... 1 2 3 4 5	50 ... 1 2 3 4 5	Pa _____
Name _____																									TOTAL SCALE SCORES Pc _____ Pa _____ Id _____ Iv _____ D _____
School _____																									
Class/Year _____																									
Date _____																									

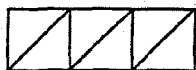
© ACER 1990. This answer sheet may be reproduced in quantities sufficient for classroom use. Permission is hereby granted to the purchaser to make copies in quantities suitable for non-commercial use within the purchasing school or educational establishment only.

**Observing Pupils and Teachers In Classrooms
(OPTIC) Schedule**

School _____ Class _____
 Teacher _____ Date _____ Time _____
 No. of children present _____ Observer 1 _____ Observer 2 _____
 Nature of lesson _____
 Section A. Teacher behaviours

Positive responses					Negative responses				
Academic		Social			Academic		Social		
1	2	3	4	5	1	2	3	4	5
6	7	8	9	10	6	7	8	9	10
1	2	3	4	5	1	2	3	4	5
6	7	8	9	10	6	7	8	9	10
1	2	3	4	5	1	2	3	4	5
6	7	8	9	10	6	7	8	9	10
1	2	3	4	5	1	2	3	4	5
6	7	8	9	10	6	7	8	9	10
1	2	3	4	5	1	2	3	4	5
6	7	8	9	10	6	7	8	9	10
Totals (REX)									
()		()			()		()		

Section B. Pupil behaviours



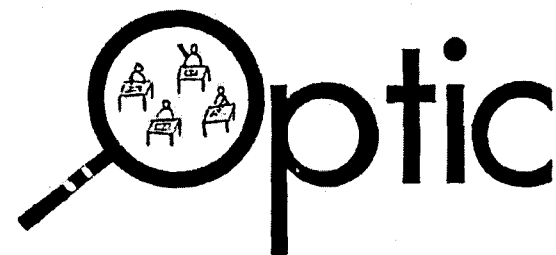
Total



=

per cent on-task

update



*Observing Pupils and Teachers In
Classrooms (OPTIC): a behavioural
observation schedule for use in schools*

FRANK MERRETT & KEVIN WHELDALL

Procedure for using OPTIC

OPTIC is meant to be used when the class under observation is engaged in classroom activity either as a whole, in groups or individually. A complete observation session will take 30 minutes. The observer should position him/herself to one side of the classroom and should not interact with the pupils or the teacher in any way. Completion of the headings at the top of the observation sheet will occupy the observer for the first few minutes of the session and will allow time for the teacher and the class to become accustomed to the observer's presence. (Special care should be taken with these records when a second observer is present and his/her identity must be recorded under the appropriate heading.) It may be necessary for the observer to move, at some stage, so that the faces of all the children can be seen, but wherever the observer sits it is possible that some interaction will be missed; some actions will not be clearly visible and/or some comments will not be heard. The recording need not be continuous but it must be unobtrusive. As far as possible, the observer should pay attention only to the immediate phase of the recording using a stop-watch or a watch with a sweep hand. The observer should try to be as objective as possible, remembering that reliability is the chief aim—that a second person observing would record what the first observer recorded. Three minutes is to be spent on each section alternately. Purely as a convention, if the date is even, the observer starts with Section B and if it is odd with Section A.

Section A is concerned with teacher behaviours—observation time three minutes on five occasions (i.e. 15 minutes in all).

During this time the observer pays attention to the teacher only, in order to record his/her responses to the behaviours of the pupils. Statements made by the teacher, which are mainly concerned with informing or instructing, should be ignored.

Teacher behaviours which should be recorded as positive events include verbal praise ("Correct!", "That's great!", "I like that!", "Well done!"); gestures like nodding encouragingly, smiling, giving the thumbs up sign; physical contact like placing the hand on the shoulder; the granting of privileges and the giving of tokens of approval like stars, ticks, points and so on.

Teacher behaviours which should be recorded as negative events include verbal criticism, reprimands, the pointing out of failure, error or general disapproval ("That's wrong!", "You're a dead loss!", "Don't do that!"); gestural responses like frowning or glaring; aversive contact involving shaking or smacking; withdrawal of privileges, points or rewards; isolation from the rest of the group and so on.

The observer is also required to distinguish between the teacher's responses to academic behaviours (like giving a correct answer) and social (conduct) behaviours (like putting up a hand to answer a question). Reference to the record sheet will show that Section A consists of four major headings (segment boxes) namely, positive academic, positive social, negative academic and negative social. For each three minute period the observer marks in the segment boxes each occurrence of one of these four behaviours by checking the numbers appropriately in sequence. If the teacher says, "Sit down, John," the observer would circle the next number in the appropriate segment box (negative social). If the teacher gives a star to a child for work completed correctly the observer would mark the next number in the segment box under positive academic. Marking the numbers in the relevant box in sequence at each occurrence of the behaviour provides an accurate count.

The following symbols are to be used within the segment boxes to mark the numbers.

O = event appropriately contingent but not R, E or X as below.

Ø = event non-contingent (rarely occurs).

R = event has been related to a rule, e.g. "Great! You have kept the rule and put your hand up without calling out".

E = event has been used as an example, e.g. a child's work or action is commented upon or displayed as an example to be copied, "Look everyone. See what a super picture David has drawn".

X = event was appropriately contingent with the teacher expressing precisely what has been done, e.g. "Well done! That was very neat work".

For example, if in a three minute period, the teacher's third positive response to social behaviour takes the form, "Susan, I'm pleased to see you working quietly. That's one of our classroom rules, isn't it?" Then the observer would mark an R over the figure three in the appropriate segment box (i.e. positive social). These symbols should also be used to record relevant negative events. For example, if the teacher sees John pulling faces and says, "Look at John, everyone. This is what I call a really silly boy", the observer would mark the next number in the appropriate segment box (negative social) with an E to show that the event has been used as an example.

At the end of the observation session the total number of responses for each teacher behaviour category should be entered in the boxes provided. The numbers of REX responses should be indicated by entering the appropriate figures within the brackets.

Section B is concerned with on/off-task pupil behaviour—observation time three minutes on five occasions (i.e. 15 minutes in all).

The observer should divide the class, by eye, into three convenient and approximately equal groups and pay attention to each in turn for one minute. During the first minute the observer should look at each pupil in the first group, in turn, for four seconds and decide whether, for the whole of that period he/she is on-task. To be rated on-task the child must be attending, i.e. in eye-contact with the teacher or the task or otherwise following the teacher's instructions. This would include listening to the teacher or to some apparatus operated by the teacher or to another child asked by the teacher to speak or following instructions or routines set by the teacher e.g. reading, drawing and so on. If the first child is on-task the observer should place a dot in the upper/left half of the first square. If he/she is off-task the observer should place a dot in the lower/right half and so on. (Later it will be possible for the observer to enter the total number on-task and the total number of children observed for each minute). As the second minute begins the observer should pass to the second group of children and observe them in order using the same procedure, entering the results in the second square. This is then repeated for the third group in the third minute and the results are entered in the third square. The sixteenth square is for the grand total of results which should then be converted into a percentage of on-task behaviour and entered in the appropriate place, i.e. = per cent on-task.

If there is an interruption at any point in the observation session, recording should cease but may be resumed from the same point when convenient to do so, starting at the beginning of a three minute sequence. The observer should ensure that all headings have been completed before the observation session ends, i.e. before the details are forgotten.

Summarising the Data

In order to obtain a representative estimate of the behaviour of the teacher and his or her class, the class and teacher should be observed together on at least three, and preferably four, occasions. The data for these sessions should then be added and averaged. For Section B, on-task behaviour, this is straightforward; the three (or four) estimates of overall on-task behaviour are simply averaged to give a representative figure. For Section A, teacher behaviour, the data for the three (or four) sessions should be summed to give rates of positive academic, positive social, negative academic and negative social responses per 45 minutes (or per hour for four sessions). Division by 45 (or 60 for four sessions) yields rates per minute for these four behaviours. (The same principles apply for REX responses if it is intended to differentiate them.) For some purposes simple rates of overall positive and negative responding are appropriate, in which cases the relevant figures for academic and social behaviours are simply added together. Similarly, for some purposes, ratio measures of positive to negative responding are required in which case positive behaviour measures are divided by negative behaviour measures. Taken together the results from the two sections of OPTIC provide a summary of current levels of teacher responsiveness and the accompanying class behaviour. As such, these results may be used to compare teachers and/or classes, to compare the same teachers or classes in different situations and/or to record changes over time.