

1 **School belonging among young adolescents with SEMH and MLD: the**
2 **link with their social relations and school inclusivity**

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7 Despite the considerable institutional changes schools have made to accommodate
8 the individual needs of pupils with special educational needs and disabilities
9 (SEND), as underpinned by key principles of inclusion, there is still international
10 concern about the mainstream experiences pupils with SEND have in school
11 settings. **This study helps us gain a clearer understanding of the schooling**
12 **experiences of pupils with social emotional and mental health (SEMH) difficulties**
13 **and moderate learning difficulties (MLD) by investigating whether they have a**
14 **sense of school belonging and positive social relations as well as whether these**
15 **vary according to the level of inclusiveness of the school ethos at the institution**
16 they attend. Perceived social relations and feelings of belonging of 1,440 (282
17 SEND) pupils, attending the 7th to 10th grades, from three secondary mainstream
18 settings that differ in inclusivity, were analysed using a self-reporting
19 questionnaire. **Findings demonstrated that pupils with SEND are not a**
20 **homogeneous group, as pupils with behavioural difficulties were found to have**
21 **less of a sense of belonging, and social relations than those with learning**
22 **difficulties. It was also found that the sense of school belonging of both groups of**
23 **SEND is associated with their positive perceived relations with teachers, as well**
24 **as their inclusiveness of school ethos. These findings contribute to the literature of**
25 **special education, as they offer ways of enhancing the sense of school belonging**
26 **of pupils with behavioural and learning difficulties in mainstream settings.**

27 **Keywords:** inclusive ethos; school belonging; social relations; learning difficulties;
28 mental health difficulties

29 **Introduction**

30 A basic definition of inclusion refers to the acceptance of pupils with special educational
31 needs and disabilities (SEND) in mainstream settings. A more sophisticated one places
32 the onus on schools to make suitable and often radical adjustments in order to
33 accommodate the individual needs of all pupils (Ainscow, 1999). As Sebba and Sachdev
34 (1997, 9) stated, inclusion is 'the process by which a school attempts to respond to all

35 pupils as individuals by reconsidering and restructuring its curricular organisation and
36 provision and allocating resources to enhance equality of opportunity'. To achieve this, it
37 is necessary for schools to provide all pupils with suitable support that meets their
38 individual needs. However, it is a common finding in the literature of special education
39 that pupils with SEND often fail to report positive schooling experiences in mainstream
40 settings (e.g. Bouchard and Berg, 2017), particularly those with social, emotional and
41 mental health (SEMH) difficulties, which suggests that their needs are not being met
42 (Cefai and Cooper, 2010; Sellman, 2009). It can be argued that school change to improve
43 inclusion is in vain, if pupils with SEND do not experience greater inclusion. One way to
44 investigate the extent to which pupils with SEND feel included within mainstream
45 settings is to measure their sense of school belonging.

46 The significant role that school plays in the schooling experiences of pupils has
47 been demonstrated through several surveys. School ethos characteristics, such as pupils'
48 active involvement in decision making and participation in extra-curricular activities,
49 praise and encouragement by teachers, successful implementation of caring behaviour
50 management policies, use of positive language and attitude, as well as knowledge of
51 individual pupils, have been found to have a positive effect on pupils' feelings of
52 belonging towards school and social relations (see for example: Carter, 2002; Cemalcilar,
53 2010; Flitcroft and Kelly, 2016; Ma, 2003; Wallace, Ye and Chhuon, 2012). These
54 findings relate to typical pupils, but the above characteristics of ethos are also those of an
55 inclusive one for pupils with SEND (see Avramidis, Bayliss, and Burden, 2002; Booth
56 and Ainscow, 2002; Hatton, 2013; Rouse and Florian, 1996) that is, schools that place
57 emphasis on the learning of all pupils, that actively promote their participation in decision
58 making, where staff and pupils have a clear understanding of school rules and behaviour
59 management approaches are applied with consistency and fairness, where teachers work

60 in collaboration to resolve any problems encountered and share responsibility to employ
61 inclusion. Consistent with findings for typical pupils, it can be hypothesised that pupils
62 with SEND attending a school with a more inclusive ethos would have an enhanced sense
63 of belonging and good social relations. **This paper examines the relationship between
64 inclusive ethos and a sense of school belonging and positive social relations for pupils
65 with two of the largest categories of SEND, mild learning difficulties (MLD) and SEMH,
66 to shed light on how inclusion works.**

67 **Understanding sense of school belonging**

68 *Theoretical perspectives and operational definitions*

69 Sense of belonging is recognised as fundamental to human well-being and healthy
70 development, regarding which: Maslow (1943), in his hierarchy of needs theory,
71 conceived belongingness as the third most fundamental need of the self and argued that
72 the need to belong has to be satisfied before other needs can be fulfilled (e.g. self-
73 actualisation). Bowlby (1969), in his attachment theory, supported the assumption that
74 lack of secure attachment with the caregiver in early years can disable an individual's
75 capacity to form caring and affectionate relations with others in later life. The significance
76 of belongingness in an individual's life was also acknowledged by Baumeister and Leary
77 (1995), who described the need to belong as a vital human motivation. The authors
78 articulated that human beings are innately social, having an internal desire to foster and
79 maintain relationships that need to be characterised by approval and intimacy for close
80 social bonds to be formed.

81 Regarding the need to belong in the school environment, Finn (1989) proposed
82 the 'identification-participation' model to explain pupils' engagement and disengagement
83 from school. He suggested that only when pupils feel that school satisfies their needs (i.e.

84 they feel respected and valued) do they develop a sense of belonging to the institution,
85 which promotes their commitment to school goals and enhances their willingness to
86 participate actively in school activities. Research has shown that no matter what the
87 causes of a low or absent sense of belonging, pupils who fail to have a positive belonging
88 to school are more likely to display low academic achievement, low attendance, risky
89 behaviours, even dropping out of school (Goodenow, 1993; Voelkl, 1997). A different
90 angle regarding belongingness was taken by Goodenow (1993), who placed emphasis on
91 the social relationships of pupils with others in the school environment, where
92 belongingness to school reflects “the extent to which students feel personally accepted,
93 respected, included and supported by others” (Goodenow, 1993, 80). Various researchers
94 have attempted to define and measure school belongingness. Despite the differences in
95 the operational definitions used to measure it, one thing that is consensually agreed, is
96 that a sense of belonging is a psychological need that when fulfilled has a positive impact
97 on pupils’ school lives.

98 Studies on school belonging have shown a strong link between pupils’ feelings of
99 belonging and its positive effects on their psychological, social and academic lives. In
100 particular, pupils who feel that they belong to school are found to be more motivated in
101 their learning, more willing to participate in all school activities, have higher school
102 attendance rates, better social relations and better academic outcomes (Goodenow, 1993;
103 Osterman, 2000). However, most studies have focussed on typically developing pupils,
104 while studies involving pupils with SEND are fewer. In the current study, emphasis is
105 given to school belonging as evidence of pupils feeling included within their school. It is
106 plausible to expect that those with SEND may have greater difficulties in fostering a
107 positive school belonging than their typically developing peers.

108 *Belonging and social relations*

109 Of the studies defining belonging institutionally, the research outcomes have revealed a
110 strong link between pupils who feel that they belong to their school and those having
111 positive social relations within the school environment. For example, in a Canadian study,
112 Bouchard and Berg (2017) employed individual interviews with teachers and pupils to
113 investigate how middle school pupils (4th-8th Grades) foster a sense of belonging to their
114 school. Thematic analysis of both teachers and pupils' responses revealed that a high
115 sense of belonging is fostered through positive and caring social interactions with teachers
116 as well as peer friendships. Similarly, in a Turkish study involving 799 typical middle
117 school pupils, Cemalcilar (2010) examined the impact of different social relations (i.e.
118 with teachers, administrators and peers) on pupils' feelings of belonging towards school.
119 The findings indicated that all three relationships were positively correlated with a sense
120 of school belonging and pupils' perceived relations with their teachers were found to be
121 the most significant of all.

122 The key role that quality teacher-to-pupil relations play in pupils' sense of school
123 belonging was highlighted by Chiu and colleagues (2016). Through conducting a large-
124 scale study, the researchers examined the school belonging of 193,073 15-year-old pupils
125 from 41 countries. Their findings indicated that positive teacher-to-pupil relations have
126 the strongest association with sense of school belonging.

127 One of the few studies on this topic examining the **impact of different social**
128 **relations on the sense of school belonging of pupils with SEND** was carried out in the
129 USA by Murray and Greenberg (2001). **The sample comprised 289 primary pupils with**
130 **SEND (i.e. SEMH, MLD, Mild Mental Retardation (MMR), or Other Health Impairments**
131 **(OHI)) or without SEND**. The findings indicated that pupils with SEND were more likely
132 to have negative relations with teachers, and lower rates of sense of school belonging than

133 pupils without disabilities. Among the pupils with SEND, those with SEMH and MMR
134 were found to have less intimate relations with and were more dissatisfied by teachers
135 than pupils without disabilities. Similarly, in an Italian study, Nepi et al. (2013) used self-
136 reporting questionnaires to examine the link between sense of school belonging and social
137 position of 418 primary school pupils with and without SEND. Findings revealed that
138 pupils with SEND are less accepted and less likely to have a positive sense of belonging
139 than their typical counterparts. In another study, McCoy and Banks (2012) analysed
140 qualitative data from a National Longitudinal Study of Children in Ireland. The research
141 outcomes revealed that the sense of school belonging of all pupils, with or without SEND,
142 was positively related to their perceived relations with teachers and peers. Taken together,
143 these works underline the importance of positive social relations for the sense of school
144 belonging of pupils with SEND. Another important adult group for pupils with SEND in
145 the school is the Teaching Assistants (TAs), as discussed by Webster and Blatchford
146 (2013). However, the impact of TA relations on pupils with SEND school belonging is
147 relatively unexamined.

148 *Belonging, individual characteristics and school ethos*

149 Research outcomes of several studies in the international literature have shown that the
150 sense of belonging of pupils to school is affected by their individual characteristics and
151 the quality of school ethos (Cemalcilar, 2010; Smerdon, 2002). For instance, in three
152 large-scale studies, Smerdon (2002), Ma (2003) and Fullarton (2002) examined the
153 association between individual pupils' characteristics and school characteristics in
154 relation to pupils' sense of belonging. Using hierarchical linear modelling for their
155 analysis, all three studies delivered similar research outcomes: that the majority of
156 variation in pupils' belonging lies within rather than between schools. Smerdon (2002)
157 found that the proportion of the variance within-school was 95%, but a small nevertheless

158 significant proposition of variance was explained by school factors (5%). Similarly, Ma
159 (2003) showed that 4% of school variance in belonging was attributed to school factors,
160 while 96% was down to the students. Fullarton (2002) found slightly higher results for
161 the between-school aspect, which reached 9% of its variance. The fact that most
162 variability was found to be within schools, points to not just individual differences in
163 belonging, but also, that the experiences and opportunities pupils have at school vary by
164 individual. It is worth noting that all these studies employed quantitative methodologies
165 for the data collection. In contrast to individual characteristics (e.g. gender) that can be
166 objectively measured, ethos is a difficult term to define and measure, as it is subjectively
167 perceived and experienced (Solvason, 2005). The small amount of variance in belonging
168 explained by ethos might be as a result of the inadequacy of the measures. Despite the
169 between-school differences in belonging not being found to be large, the fact that they
170 exist at all indicates that the quality of the school a pupil attends does play a role in their
171 sense of belonging. That is, this suggests that, irrespective of the individual differences a
172 pupil might have, the ethos of a school can equally enhance or discourage pupils' sense
173 of belonging towards school.

174 Educational and psychological research over time has provided evidence that the
175 quality of school ethos affects the sense of belonging of pupils to school. In a Turkish
176 study involving 799 middle school pupils from 13 schools, Cemalcilar (2010) found that
177 pupils' perceived satisfaction with their social relations as well as with the school ethos
178 were significant predictors of positive feelings of belonging towards school. This is
179 higher in schools that promote positive relationships between individuals as well as in
180 those where they are given the opportunity to take decisions about academic work, learn
181 collaboratively (Smerdon, 2002) and participate in the school's extracurricular activities
182 (Flitcroft and Kelly, 2016). The applied behaviour management of a school was also

183 found to be linked with pupils' belonging. Cassidy (2005) elicited that care-based¹
184 disciplinary practices can be more effective in sustaining school belongingness than the
185 traditional ones that rely on punishment. Fair treatment was also argued by Newmann
186 (1992) to be crucial to a student fostering a positive sense of belonging to school. In a
187 similar vein, Ma (2003), drawing on quantitative data from a large-scale study conducted
188 in Canada, found a school's disciplinary climate was positively associated with 8th grade
189 pupils' sense of school belonging.

190 In the field of special education, school ethos characteristics were explored in one
191 American and one English study for any positive influence on the sense of school
192 belonging in pupils with SEND (Frederickson et al., 2007; Hagborg, 1998). Neither study,
193 using Goodenow's (1993) Psychological Sense of School Membership scale, found any
194 significant difference in the sense of school belonging between typical pupils and pupils
195 with SEND. In the Harborg study, this mark of inclusion was attributed to small size of
196 the participating school and the quality of special support provided to pupils. In the study
197 by Fredrickson and colleagues pupils with SEND received education in classes which
198 were part of an innovative inclusion programme. However, to researchers' knowledge
199 none of the existing studies had ever investigated whether the sense of school belonging
200 and social relations of pupils with SEMH and MLD vary according to the level of
201 inclusiveness of the school ethos at the institution they attend. The following research
202 questions were compiled to guide this study aimed addressing the gaps in the literature
203 identified above:

- 204 1. Are there differences in belonging, and social relations (i.e. with teachers, TAs
205 and peers) between typically developing pupils and those with SEND?

¹ Care-based practices focus on promoting the academic and personal welfare of students.

- 206 2. Is there a relationship between the perceptions of pupils with SEMH and MLD
207 regarding social relations (i.e. with teachers, TAs, and peers) and their sense of
208 school belonging?
- 209 3. Is there a relationship between the perceptions of pupils with SEMH and MLD
210 about ethos with their sense of school belonging, and social relations?
- 211 4. Is the inclusiveness of school ethos linked with school belonging and social
212 relations for pupils with SEMH and MLD?

213 **Methodology**

214 *Participants and Procedure*

215 Data were collected from 1,440 pupils attending the 7th to 10th grades of three mainstream
216 state-funded English secondary schools in a suburban metropolitan area, pupils identified
217 with SEND by their schools and all their classmates. The schools were purposively
218 selected based on the inclusivity of their school ethos. Three schools, one ‘very inclusive’,
219 one ‘just inclusive’ and one ‘less inclusive’, were identified after a rigorous selection
220 process based on School Census statistics provided by the Department for Education in
221 England and accepted for participation in the study. The identification of schools that
222 differ in inclusivity was based on *two initial criteria*, followed by matching *three further*
223 *criteria*. *First criterion*: the ‘inclusivity’ of each school was measured by the difference
224 in the percentage of SEND pupils in each school with the average for the Local Authority
225 (LA) to which it belonged. *Second criterion*: another indication of ‘inclusivity’ was the
226 percentage of exclusions. Schools that had a lower percentage when compared with the
227 LA’s average were characterised as inclusive, while those with a higher percentage were
228 deemed as less so. Schools that had been refined from the first and second criteria also
229 needed to have similar Ofsted reports, socioeconomic background (i.e. percentage of
230 pupils eligible for free school meals) and ethnicity levels (i.e. percentage of pupils who

231 speak English as first language) to meet the third, the fourth and fifth criteria,
232 respectively. The current study focused on pupils with SEMH and MLD, as they are
233 among the largest groups of SEND receiving education in mainstream English settings at
234 the time of the study (DfE, 2011. Typical pupils attending the 7th to 10th grades in the
235 same schools were also included as a comparable group.

236 The number of participating pupils from each school was approximately 500. At
237 the time of the study, schools were required to identify pupils with SEND as requiring
238 School Action, School Action plus or a Statement of SEND (DfE/DHSC, 2015). The
239 majority of pupils, nearly 78% were classified by schools as typical, while 19% were
240 identified as having some level of SEND (3% of pupils were not classified in either of
241 the two categories due to missing data in the information provided by pupils in the self-
242 reporting questionnaire). Of the total sample: 2.4% pupils (n=36) were identified by the
243 school as having SEMH, including those with SEMH and another SEND category; 6.7%
244 (n=99) were identified by the school as having MLD, including those identified as having
245 this and another SEND category. Pupils with another category of SEND, as well as those
246 pupils that had a combination of MLD and SEMH, were classified as having Other SEND
247 (9.9%, n=147) for the purpose of this study.

248 For triangulation purposes on the identification of SEMH, all pupils were asked
249 to complete the pupil self-reported version of the Strengths and Difficulties Questionnaire
250 (SDQ) (Goodman, 1997). The SDQ is a brief measure of screening for behavioural and
251 emotional problems with pupils and adolescents. According to its terminology,
252 behavioural problems are labelled as externalising difficulties and emotional problems as
253 internalising ones. Classification made based on the SDQ total difficulties scores revealed
254 that 70.3% of pupils were identified as normal, 11.5% as borderline and 7.5% as abnormal
255 (10.8% missing values). On the SDQ externalising difficulties sub-scale, 76.3% were

256 classified as normal, 7.2% as borderline and 5.9% as abnormal. Whilst a comparison of
257 the percentages of pupils classified by the school as SEMH and by self-report as abnormal
258 on SDQ externalising scale revealed some degree of concord, disagreement was also
259 evident, i.e. half of the pupils identified by their school as SEMH had scores in the normal
260 range on the SDQ externalising scale and half of the pupils with scores on the borderline
261 or in the abnormal range on the SDQ externalising scale were not identified as SEMH by
262 their schools. Consideration of the challenges in accurately identifying SEMH is beyond
263 the scope of this paper and will be discussed in a later one. Identification of SEMH
264 provided by school SENCO and SDQ questionnaire are used in this paper.

265 Informed consent was sought from all participants and parents of participating
266 pupils. All participants were informed of their right to withdraw from the study and of
267 their rights to confidentiality and anonymity.

268 ***Measures***

269 *Developing new scales*

270 Two scales were developed for the purpose of the current study, the sense of school
271 belonging and the social relations. The former was developed for the following reasons.
272 In the literature, there are two core drivers underpinning the perceptions of researchers
273 on school belongingness. The first, used by numerous researchers, pertains to measuring
274 pupils' belongingness to school in terms of social relations, by examining the extent to
275 which students feel valued and accepted by the members of the school community (i.e.
276 teachers and peers) (see Goodeneow, 1993; Ma, 2003; Smerdon, 2002; Voelkl, 1996).
277 The second perspective is in respect of a pupil's belongingness to the school as an
278 institution. Relations with school are measured mostly by examining pupils' feelings of
279 school liking or belonging (see Cemalcilar, 2010; McCoy and Banks, 2012).

280 The majority of previous studies focused mainly on examining typical pupils'
281 feelings about school, using a definition that involved social relations to measure school
282 belonging. In contrast, for this study the interest lies in investigating the feelings of pupils
283 identified as having SEND towards an institution, by using inclusion as a theoretical
284 framework. According to Florian (1998), inclusion is defined as the opportunity for active
285 involvement and choice in the school setting, and not something given to SEND pupils.
286 Thus, in order to examine pupils' belonging to school as an institution there is a need to
287 separate out social relations, and relations to school, i.e. probing each one discretely.

288 Regarding the social relations scales, most of the previous researchers (see
289 Cemalcilar, 2010; Goodenow, 1993; Morrison et al. 2012) have devised tools to examine
290 typical pupils' social relations. None of the existing scales assess the social relations of
291 pupils with SEND, nor can they capture the difficulties that pupils with SEMH and MLD
292 encounter in their social interactions with peers and key educators. Accordingly, a new
293 scale measuring social relations with peers, teachers and teaching assistants (TAs) was
294 constructed, where some of the items were developed specifically for this study and others
295 were based on existing validated instruments (e.g. Booth and Ainscow, 2002; Goodenow,
296 1993; Ma, 2003).

297 *Scales used in the main study*

298 Prior to the data collection, a pilot study was conducted to test the clarity of items and
299 their internal consistency. Participants were asked to fill in a self-reported questionnaire
300 on a 5-point Likert scale.

301 Perceived sense of school belonging scale was assessed using nine items (e.g. I
302 like to take part in student council (or student body), I feel equal to other pupils in this
303 school). The internal consistency of the scale was .79. Higher scores indicated higher

304 levels of sense of school belonging. Perceived quality and satisfaction with social
305 relations within school was assessed with three sub-scales, each consisting of 10 items to
306 measure teacher-to-pupil relations (e.g. my teachers give me extra help when I need it),
307 TA-to-pupil relations (e.g. my TA helps me to progress) and pupil-to-pupil relations (e.g.
308 pupils think of me as not fitting in with any group). The internal consistencies for the
309 subscales were .80, .77, and .71, respectively. Higher scores indicated higher levels of
310 satisfaction. Perceived perceptions of the school ethos were assessed using two sub-
311 scales, with the first measuring inclusion and involves 11 items (e.g. my needs are met in
312 this school) and the second sub-scale measuring behaviour management and involves six
313 items (e.g. rules at this school applied equally to all pupils). The internal consistency of
314 the school ethos scale was .83, while the sub-scales for inclusion and behaviour
315 management were .85 and .67 respectively. Further information of the development of
316 the above scales, along with the self-reporting questionnaire can be found in Author
317 (2017).

318 **Findings**

319 *Differences in belonging*

320 Table 1 shows the results of a series of independent-sample *t*-tests on school belonging.
321 Statistically significant differences were found between pupils with and without
322 identified SEND ($t(1279) = 2.139, p = .033$), with pupils with SEND scoring lower than
323 their typical peers. There was no significant difference between pupils identified by their
324 school as MLD or SEMH, but belonging scores of those identified as having the former
325 were significantly higher than and those who classified themselves as abnormal on the
326 SDQ externalising difficulties scale ($t(244) = 3.859, p < .001$). Consistent with all group
327 comparisons conducted for pupils with co-occurring MLD and SEMH/abnormal SDQ

328 scores, the MLD group in the latter analysis excluded pupils who also scored within the
329 abnormal range on the SDQ externalising scale ($n = 25$) to enable comparison between
330 dichotomous groups; and the remaining MLD pupils had a higher mean score on the
331 belonging scale. Finally, it was also found that pupils who classified themselves as
332 abnormal on the SDQ externalising difficulties scale rated their perceived sense of school
333 belonging lower than those who classified themselves as abnormal on the SDQ internalising
334 difficulties scale ($t(277) = 2.992, p = .03$).

335 *Differences in social relations*

336 Comparing responses from different groups of pupils on their perceived relations with
337 teachers indicated statistically significant differences for the majority of the results, as
338 can be seen in Table 1. Differences in perceived relations with teachers were observed
339 between type of SEND status $t(320.972) = 2.276, p = .024$, with typical pupils scoring
340 higher than those identified as having SEND. Comparisons between groups of pupils with
341 different categories of SEND also revealed statistically significant differences in the mean
342 scores between groups. However, there was no significant difference between pupils
343 identified by their school as MLD or SEMH, whereas scores of perceived relations with
344 teachers of those with MLD were significantly higher than those who classified
345 themselves as abnormal on the SDQ externalising difficulties scale $t(232) = 8.706, p <$
346 $.001$. Consistent with all group comparisons conducted for pupils with co-occurring MLD
347 and SEMH/abnormal SDQ scores, the MLD group in the latter analysis excluded pupils
348 who also scored within the abnormal range on the SDQ externalising scale ($n = 25$) to
349 enable comparison between dichotomous groups; and the remaining MLD pupils had a
350 higher mean score on the relations with teachers scale. A statistically significant
351 difference in perceived relations with teachers was also observed $t(209) = 7.014, p < .001$,

352 with pupils who classified themselves as abnormal on the SDQ internalising difficulties
353 scale scoring higher than those on the externalising one.

354 As shown in Table 1, statistically significant differences for perceived relations
355 with peers ($t(292.996) = 4.49, p < .001$) were observed only between typical pupils, and
356 those with SEND, with typical pupils scoring higher than those with SEND. This was
357 also the case between groups of SEND ($t(192) = -3.969, p < .001$), with those who
358 classified themselves as abnormal on the SDQ internalising difficulties scale scoring
359 higher than those who were abnormal on the externalising one.

360

361 Table 1: t-tests of belonging and social relations for different groups of pupils

	Belonging			Relations with Teachers			Relations with Peers		
	N	M (SD)	t-test	N	M (SD)	t-test	N	M (SD)	t-test
Typical	1038	32.23 (5.4)	2.14*	988	35.47 (6.1)	2.28*	923	38.25 (5.5)	4.49**
Pupils with SEND	283	31.41 (5.5)		263	34.37 (6.8)		240	36.21 (6.0)	
SEMH	31	30.29 (5.3)	-1.25	30	32.83 (6.0)	-1.78	26	34.12 (6.9)	-1.10
MLD	90	31.60 (5.0)		90	35.16 (6.2)		82	35.76 (5.5)	
MLD	66	32.58 (4.5)	3.86**	66	37.03 (5.1)	8.71**	63	35.84 (5.7)	.447
Abnormal_exter	180	29.43 (6.0)		168	30.42 (5.3)		156	35.47 (5.6)	
Abnormal_inter	46	32.22 (5.0)	2.99**	46	37.02 (5.7)	7.01**	43	32.26 (5.7)	-3.97**
Abnormal_exter	178	29.28 (6.2)		165	30.63 (5.4)		151	35.98(5.3)	

362 Note. *p < .05, **p < .01

363 ***Relationship between the perception of pupils with SEND on social relations (i.e. with***
364 ***teachers, TAs, and peers) and their sense of school belonging***

365 The perceived sense of school belonging of pupils with SEND was significantly
366 correlated with all measures of social relations. There was a positive correlation between
367 the perceived sense of school belonging of pupils with SEND with their social relations
368 with teachers ($r = .475$, $n = 1251$, $p < .001$). The correlation was of medium size and
369 explained nearly 23% of the variance in the scores of pupils with SEND on their perceived
370 belonging; the highest of all amongst their social relations. A positive correlation was
371 also found between the perceived sense of school belonging of pupils with SEND and
372 their relations with TAs ($r = .367$, $n = 45$, $p < .001$). It is a medium correlation: 13% of
373 the variation is explained. Finally, the interrelationship between perceived relations with
374 peers and sense of school belonging indicates a positive correlation between variables (r
375 $= .269$, $n = 1163$, $p < .001$), with high levels of perceived relations with peers associated
376 with high levels of perceived belonging. The correlation was small and explained nearly
377 7% of the variance.

378 ***Relationship between the perception of pupils with SEND on ethos with their sense of***
379 ***school belonging, and social relations***

380 Perceived ethos, as measured by pupils themselves, was significantly correlated with all
381 measures (i.e. belonging, and social relations). There was a strong positive relationship
382 between the perceived ethos of pupils with SEND and their sense of school belonging (r
383 $= .575$, $n = 1321$, $p < .001$), thus suggesting that the more positive perceptions pupils with
384 SEND hold about their school ethos, the more likely they are to score high in their sense
385 of school belonging. It was a large correlation: 33% of the variation was explained. Ethos
386 was also positively correlated with social relations with teachers ($r = .456$, $n = 1251$, $p <$

387 .001), and teaching assistants ($r = .521, n = 45, p < .001$). Perceived ethos helps to explain
388 21% of the variance in the respondents' scores regarding social relations with teachers,
389 and 27% with TAs, whilst the correlations between variables are medium and large,
390 respectively. Finally, the correlation between the perceived ethos of pupils with SEND
391 and their relations with peers was found to be weak and not statistically significant.

392 *Relation of inclusiveness of school ethos with pupils with SEND, sense of school*
393 *belonging and social relations*

394 Table 2 contains descriptive statistics of the variables for the three different settings. The
395 findings indicate that there was a statistically significant difference in pupils' perceived
396 school ethos in the three schools, $F(2, 1260) = 5.557, p = .004$ for school ethos; $F(2,$
397 $1310) = 10.249, p > .001$ for the behaviour management sub-scale; and $F(2, 1264) = 4.20,$
398 $p = .015$ for the school inclusivity sub-scale. **Post hoc comparisons on school ethos**
399 **indicated that less inclusive school ($M = 55.37, SD = 9.08$) was found to be statistically**
400 **significantly lower than the just inclusive ($M = 56.9, SD = 9.99$), and the very inclusive**
401 **($M = 57.46, SD = 8.97$), while no statistically significant difference in the mean scores**
402 **between the just inclusive and the very inclusive was found Post hoc comparisons in**
403 **behaviour management and inclusivity sub-scales indicated that the less inclusive school**
404 **was scoring lower than the just inclusive and the very inclusive school.**

405 Similarly, findings indicated a statistically significant difference in the mean
406 scores on the sense of school belonging between the three settings, $F(2, 1318) = 4.020, p$
407 $= .018$. **Post hoc comparisons show that the mean score on the sense of school belonging**
408 **for the very inclusive school ($M = 32.41, SD = 5.3$) was significantly different from the**
409 **less inclusive ($M = 31.4, SD = 5.2$), with the very inclusive school scoring higher than**
410 **the less inclusive. However, the just inclusive did not differ significantly from either of**
411 **the other two.**

412 Statistically significant differences were also found in pupils' perceived social
413 relations with teachers according to the three different school settings $F(2, 1248) = 3.840$,
414 $p = .022$. Post hoc comparisons indicate that the mean score for the just inclusive school
415 ($M = 34.72$, $SD = 6.2$) was significantly lower than the very inclusive ($M = 35.86$, $SD =$
416 6.0), while the less inclusive did not differ significantly from either of the other two. No
417 significant difference across the settings was found in pupils' perceived relations with
418 peers nor with the TAs.

419 Table 2 Ethos, belonging and social relations scores for different school settings

	Just Inclusive	Very Inclusive	Less Inclusive		
Variable	<i>M (SD)</i>	<i>M (SD)</i>	<i>M (SD)</i>	F	p
Ethos	56.92 (10.0)	57.46 (9.0)	55.37 (9.1)	<i>F</i> (2,1260)	.004**
BM	21.04 (4.5)	20.75 (4.1)	19.78 (4.2)	<i>F</i> (2, 1310)	< .001**
Inclusivity	35.87 (6.5)	36.68 (6.0)	35.49 (5.9)	<i>F</i> (2,1264)	.015*
Belonging	32.16 (5.7)	32.41 (5.3)	31.41 (5.2)	<i>F</i> (2,1318)	.018*
Relations with Teachers	34.72(6.2)	35.86(6.0)	35.04(6.4)	<i>F</i> (2, 1248)	.022*
Relations with TAs	41.33(8.4)	38.63(9.0)	33.67(11.6)	<i>F</i> (2, 42)	.177
Relations with pupils	37.83(5.8)	37.89(5.3)	37.73(6.1)	<i>F</i> (2, 1160)	.919

420 Note. N =, M = Mean, SD = Standard deviation; *p < .05, **p < .01

421

422 **Discussion**

423 The objective of this study was to explore whether pupils with SEND attending secondary
424 mainstream English settings have a sense of school belonging and positive social
425 relations, along with whether these vary according to the inclusiveness of the school
426 ethos.

427 It is clear from the analysis that the sense of school belonging varies between
428 different groups of pupils. At a descriptive level, the findings show that pupils with SEND
429 are less likely to have a sense of belonging than their typically developing peers.
430 Differences were also observed among pupils with SEND, whereby their feelings of
431 belonging were affected by their type of special need. In particular, pupils reporting
432 behavioural difficulties or hyperactivity were more likely to have a lesser sense of
433 belonging compared to those with learning difficulties or those with emotional
434 difficulties.

435 In order to understand any differences in the sense of school belonging among
436 pupils with SEND, we also examined their perceived relations with teachers, peers and
437 TAs, as the literature shows that the sense of school belonging is very much influenced
438 by the quality of social relations at school (e.g. Bouchard and Berg, 2017; Cemalcilar,
439 2010). Analysis for the current study revealed that pupils with SEND perceive their
440 relationships with teachers as well as peers more negatively than their typically
441 developing counterparts, which is consistent with McCoy and Bank's (2012) finding from
442 the Irish context.

443 Differences in the social relations with teachers were also observed among pupils
444 with SEND. Specifically, those reporting externalising disorders were found to be the
445 most dissatisfied with their relations with their teachers than their counterparts with
446 learning difficulties as well as those with emotional difficulties. **One possible explanation**

447 for this outcome is that it reflects the bi-directional nature of relationships. Pupils with
448 behavioural difficulties may lack social skills, which negatively affect their ability to
449 build and maintain satisfactory social relationships (Frosted and Pijl, 2007). These may
450 in turn elicit negative reactions from teachers, who may have received insufficient
451 training in the management of challenging behaviours and how it makes them feel (Allan,
452 2015).

453 Within the group of pupils with SEND, their perceived relations with teachers had
454 the strongest association with their sense of school belonging ($r = .475$), followed by their
455 relations with TAs ($r = .367$), while the relations with peers, although still significant,
456 showed the weakest association ($r = .269$). Whilst the important role teachers play in
457 shaping pupils' sense of school belonging has been confirmed by the findings of a number
458 of international studies (e.g. Cemalcilar, 2010; Chiu et al., 2016; McCoy and Banks,
459 2012), for pupils with SEND, one would expect their relations with TAs to have the most
460 significant effect on their belonging. According to Webster and Blatchford (2013),
461 teachers may neglect pupils with SEND, handing over much responsibility to TAs, with
462 the belief that they have more expertise to offer regarding this cohort. One possible
463 explanation therefore for this finding might be that pupils with SEND might have the
464 need to have more intimate relations and social interactions with their teachers in class
465 marking the responsibility teachers have in shaping positive schooling experiences for
466 pupils.

467 Another factor that was found to associate positively with the sense of school
468 belonging of pupils with SEND was their perceptions on their school ethos. This means
469 that pupils who perceive as satisfactory the applied inclusive policies and behaviour
470 management strategies that their school implements are more likely to foster a favourable
471 sense of school belonging than those who do not. For example, analysis of this study

472 revealed that pupils at the very inclusive school, who perceived the ethos of their school
473 as more inclusive, scored higher in their sense of belonging than those at the less inclusive
474 one, who perceived the ethos of their school as less inclusive. The link between school
475 ethos characteristics and typical pupil sense of school belonging is supported by other
476 international studies (Bouchard and Berg, 2017; Cemalcilar, 2010; Ma, 2003). However,
477 very few studies have found an association between the inclusivity of a school setting and
478 the sense of school belonging of pupils with SEND, either nationally or internationally.

479 Last it must be noted that the analysis of this study also found a positive
480 association between the perceived ethos of pupils with SEND and their social relations
481 with teachers and TAs. The relations of these pupils with their TAs explained
482 considerably more of the variance of their perceived school ethos than their relations with
483 their teachers. This result could be explained by the fact that pupils with SEND receive
484 more attention and care from their TAs than their teachers within class, as demonstrated
485 by Webster and Blacthford (2013). Thus, it is logical to expect that the relationship with
486 TAs is the one that contributes most to a pupil's perception about school.

487 In sum, it appears that the sense of school belonging for pupils with SEND within
488 secondary mainstream English settings is affected by two factors: their perceived quality
489 of social relations with teachers, and their perceived inclusiveness of their school ethos.
490 Pupils with SEND, particularly those with behavioural difficulties, find it harder to feel a
491 sense of belonging towards school as well as finding it more difficult to form positive
492 relations with their teachers than those with learning difficulties and emotional
493 difficulties. The results of the current study highlight the inefficiency of two practical
494 implications: firstly, the inability of teachers to tackle pupils' challenging behaviour
495 without conflict; and secondly the ineffectiveness of schools to implement successful
496 behaviour management strategies. A further study with more focus on the voices of pupils

497 with behavioural difficulties to elicit the reasons they feel less belonging is therefore
498 recommended.

499 Finally, a number of important limitations need to be considered. Firstly, the
500 findings of this study were correlational in nature and hence, assumptions about the causal
501 relationships of variables cannot be made. Secondly, **due to time restrictions only a small**
502 **number of schools were recruited. Thirdly,** because of the small sample size of schools,
503 it is recognised that the findings are not generalisable. **Another limitation of the study**
504 **refers to the validity of the sample as identification of pupils was based on school**
505 **recorded categories which leaves a pupil's behaviour and attainment open to subjective**
506 **interpretations.** Similarly, some of the data were collected from participant self-reports
507 and the pupils might have misrepresented their levels of belonging to school, for example,
508 to project a more favourable image. **Finally, demographic information beyond age and**
509 **gender was not collected at pupil level and has not been included in analysis here.**
510 However, despite these limitations, this study adds to the literature of special education
511 as it offers ways of enhancing the sense of school belonging of pupils with SEND in
512 mainstream settings.

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