



**EBPU** Evidence Based  
Practice Unit

A partnership of



# Wellbeing Measurement *for Schools*

## *Pupil Report*

Sample School 2, Year 7, 2019/20

Pupil surveys completed: Nov - Dec 2019

Report produced: 08 Jan 2020

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# Using this report

## Understanding your report

The purpose of this report is to give you an overview of the data from your Wellbeing Measurement Survey. The report analyses the data from your school and compares it with data from other schools.

Whilst pupil response data is a rich source of information about how children are thinking and feeling, care does need to be taken in interpreting the results. There are inherent flaws in self-reported information: different groups may read the statements in different ways and there can be skews in the data due to who completed the questionnaire. As a result, these findings should be considered in the context of other information. For example you might look at the data alongside information about engagement or attainment, and also consider the perspective of teachers and other professionals who work with the pupils concerned.

## Small numbers and pupil anonymity

Pupil anonymity is a key principle of Wellbeing Measurement for Schools. When fewer than 3 respondents fall into a particular range, the exact number is not shown. Where this is the case for your data, it is clearly indicated in this report.

## Using your results

These data can provide a useful starting point for discussions about the wellbeing and experiences of pupils in your school. The report can potentially be useful in:

- considering areas of strength and/or helping pupils reflect on their positive qualities
- indicating progress against targets in your School Improvement Plan or identifying future target areas
- identifying areas of priority for staff training
- offering context when considering academic data for these year groups.

## Involving children and young people

Young people consulted in the development of Wellbeing Measurement for Schools feel that pupils should be included in discussions around the feedback, particularly to plan activities and approaches to raise awareness of strengths or difficulties the report may highlight.

Schools are best placed to make decisions about the most appropriate way to share these findings with children and young people. Schools in Mind<sup>1</sup> have produced resources to support schools to begin conversations about mental health with children. Talking Mental Health<sup>2</sup> is designed for pupils in Year 5 and Year 6; We All Have Mental Health<sup>3</sup> is aimed at pupils in Years 7 to 9.

<sup>1</sup> <https://www.annafreud.org/what-we-do/schools-in-mind/>

<sup>2</sup> <https://www.annafreud.org/what-we-do/schools-in-mind/resources-for-schools/talking-mental-health-animation-teacher-toolkit/>

<sup>3</sup> <https://www.annafreud.org/what-we-do/schools-in-mind/resources-for-schools/we-all-have-mental-health-animation-teacher-toolkit/>

# Wellbeing Measurement for Schools and Ofsted

This report is designed for schools to support evaluation of areas of strength and challenge and to inform planning of prevention and support. However, some aspects of the **Wellbeing Measurement Report** directly relate to key aspects the Ofsted framework. Reference to Ofsted is included where the survey data might be relevant to an aspect of the school inspection .

The school inspection handbook states that inspectors will, “take a range of evidence...into account when making judgements” (Ofsted, 2019, p.12) and will use, “documentary evidence provided by the school that demonstrates the effectiveness of the school’s provision” (p.73).

There are also areas in the Ofsted framework where the report could provide supporting evidence. For example, the following grade descriptor:

Personal development: “The curriculum and the school’s effective wider work support pupils to be confident, resilient and independent, and to develop strength of character” (p.62).



# Understanding your red, amber and green indicators

In this report the wellbeing survey responses from pupils in your school year group are compared with responses from pupils in other schools.

The survey responses from other schools are taken from two programmes: HeadStart and Education for Wellbeing. Based on this comparison, your school year group is given a red, amber or green indicator. Details of the statistical test used and the uncertainty due to random variation in sampling are included in Appendix 4.

The data from HeadStart or Education for Wellbeing may not be nationally representative of all schools. We therefore encourage schools to consider how similar or different your pupil characteristics are to those in HeadStart and whether this may sway the results towards a particular indicator colour.

The below table breaks down the percentages of pupils in the HeadStart programme in three key areas. This breakdown for Education for Wellbeing is currently unavailable but we aim to include it in future reports.



	School data from HeadStart 2015 (7633 year 6, 7, 8 and 9 pupils) <sup>1</sup>	School data from HeadStart 2017 (15301 year 7 pupils) <sup>2</sup>
Pupils identified as White British	73%	78%
Free School Meal eligibility (FSM)	19%	17%
Special Educational Needs (SEN) with or without statement	17%	13%

<sup>1</sup> Lereya et al. (2016) The student resilience survey: psychometric validation and associations with mental health. *Child Adolescent Psychiatry Mental Health*, 10(44)

<sup>2</sup> Lereya, S.T., Patel, M., dos Santos, J.P.G.A. & Deighton, J. (2019) Mental health difficulties, attainment and attendance: a cross-sectional study. *European Child & Adolescent Psychiatry*, doi: 10.1007/s00787-018-01273-6.

# Overview of results





## 1. Mental health and wellbeing

	1.1 Emotional difficulties
	1.2 Behavioural difficulties

## 2. Emotional strengths and skills

	2.1 Life satisfaction
	2.2 Empathy
	2.3 Self-esteem
	2.4 Problem solving
	2.5 Goal setting
	2.6 Participation in home and school
	2.7 Participation in community

## 3. Support networks

	3.1 Peer support
	3.2 School support
	3.3 Family support
	3.4 Wider support

### Key

Comparing the proportions of pupils in the expected range in your school and other schools may suggest that:



This is an area of challenge for your school year group



Your school year group is typical in this area



This is an area of strength for your school year group



A larger number of survey responses are needed to make a meaningful comparison

# 1. Mental health and wellbeing

This section of the Wellbeing Measurement Report looks at pupil responses with respect to their mental health and wellbeing. This includes:

## 1.1 Emotional difficulties

## 1.2 Behavioural difficulties

### Ofsted

This score is relevant to both the “behaviour and attitudes” and “personal development” aspects of the Ofsted framework (Ofsted, 2019). Specifically: *“The behaviour and attitudes judgement considers how leaders and staff create a safe, calm, orderly and positive environment in the school and the impact this has on the behaviour and attitudes of pupils” (p.52).*

*“The personal development judgement evaluates the school’s intent to provide for the personal development of all pupils, and the quality with which the school implements this work.”(p.58)*

Behaviour and attitudes: Outstanding (1) grade descriptors: *“Pupils behave consistently well, demonstrating high levels of self-control and consistently positive attitudes to their education. If pupils struggle with this, the school takes intelligent, fair and highly effective action to support them to succeed in their education” (p.56).*

# 1.1 Emotional difficulties

These questions are about the extent to which pupils direct negative feelings inwards, which may result in worry, anxiety and low mood.

Responses to these questions are scored and categorised as follows:

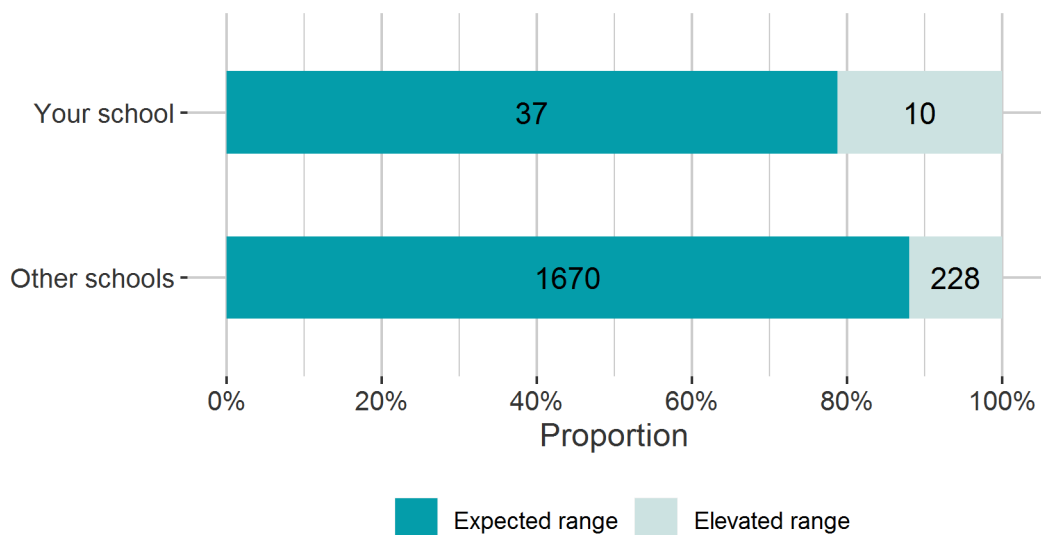
- Expected range – pupils who are scoring as expected for pupils their age
- Elevated range – pupils whose scores indicate a greater level of difficulties

Comparing the proportions of pupils in the expected range in your school and other schools may suggest that:



This is an area of challenge for your school year group

Numbers and Proportions of pupils in each range



## Response rate

(Pupils who answered the questions in this area / Pupils in year group)

Your school: 47% (47/100)

Other schools: 50% (1898/3811)



# 1.2 Behavioural difficulties

These questions are about the extent to which pupils direct negative feelings outwards, which may result in challenging or aggressive behaviours.

Responses to these questions are scored and categorised as follows:

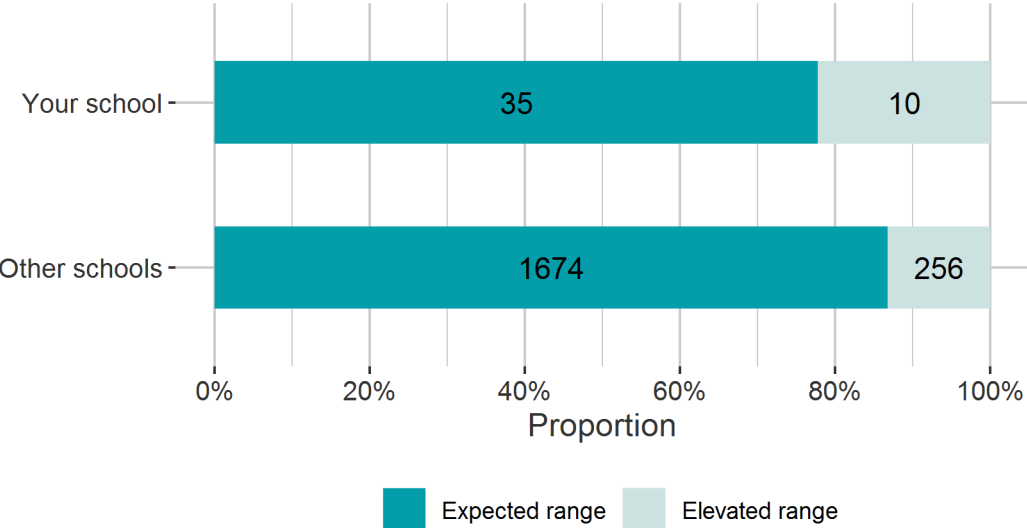
- Expected range – pupils who are scoring as expected for pupils their age
- Elevated range – pupils whose scores indicate a greater level of difficulties

Comparing the proportions of pupils in the expected range in your school and other schools may suggest that:



Your school year group is typical in this area

Numbers and Proportions of pupils in each range



### Response rate

(Pupils who answered the questions in this area / Pupils in year group)

Your school: 45% (45/100)

Other schools: 51% (1930/3811)

## 2. Emotional strengths and skills

This section of the Wellbeing Measurement Report looks at pupil responses with respect to their emotional strengths and skills. This includes:

2.1 Life satisfaction

2.2 Empathy

2.3 Self-esteem

2.4 Problem solving

2.5 Goal setting

2.6 Participation in home and school

2.7 Participation in community

### Ofsted

This score is relevant to “the personal development,” aspect of the Ofsted framework (Ofsted, 2019). Specifically:

*“developing pupils’ confidence, resilience and knowledge so that they can keep themselves mentally healthy” (p.59)*

Personal development, behaviour and welfare: Good (2) grade descriptors:

*“The curriculum and the school’s effective wider work support pupils to be confident, resilient and independent, “*

*“The school provides high-quality pastoral support. Pupils know how to...keep...mentally healthy” (p. 62)*

## 2.1 Life satisfaction

These questions ask pupils to judge their satisfaction with life as a whole.

Responses to these questions are scored and categorised as follows:

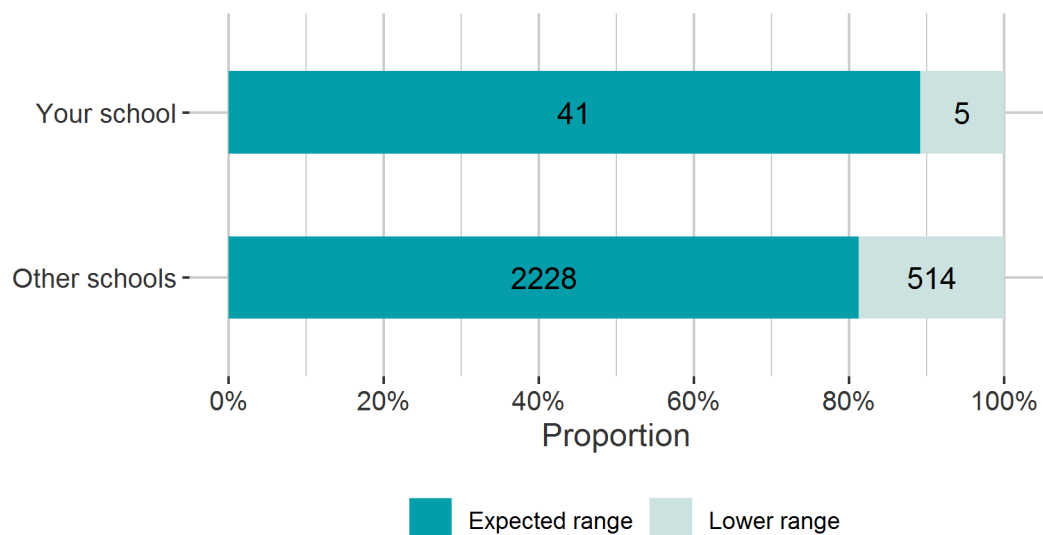
- Expected range – pupils who are scoring as expected for pupils their age
- Lower range – pupils whose scores indicate lower levels of life satisfaction

Comparing the proportions of pupils in the expected range in your school and other schools may suggest that:



Your school year group is typical in this area

Numbers and Proportions of pupils in each range



### Response rate

(Pupils who answered the questions in this area / Pupils in year group)

Your school: 46% (46/100)

Other schools: 83% (2742/3299)

## 2.2 Empathy

These questions are about identifying with others and showing concern for their feelings.

Responses to these questions are scored and categorised as follows:

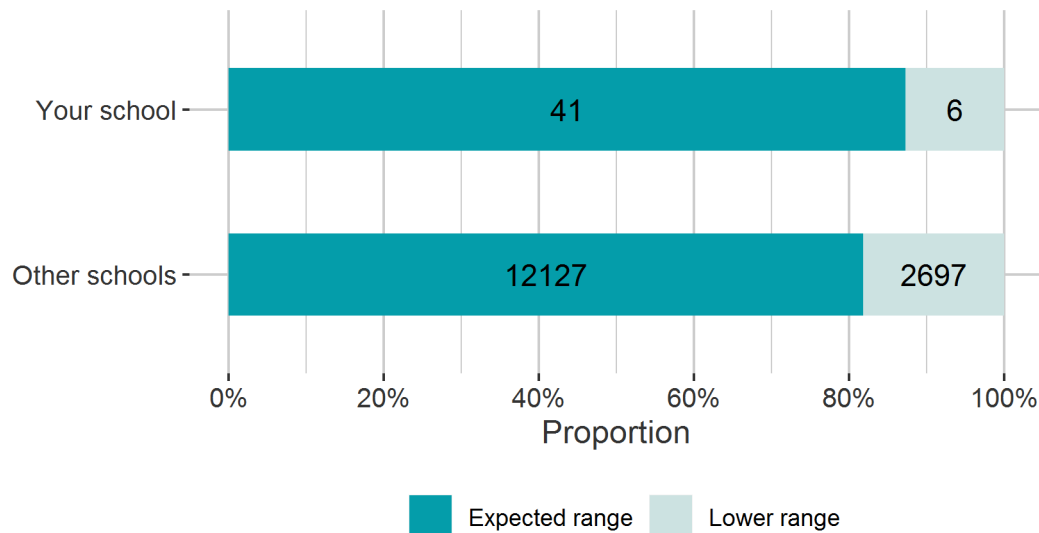
- Expected range – pupils who are scoring as expected for pupils their age
- Lower range – pupils whose scores indicate lower levels of empathy

Comparing the proportions of pupils in the expected range in your school and other schools may suggest that:



Your school year group is typical in this area

Numbers and Proportions of pupils in each range



Response rate

(Pupils who answered the questions in this area / Pupils in year group)

Your school: 47% (47/100)

Other schools: 80% (14824/18596)

## 2.3 Self-esteem

These questions are about pupils' attitudes towards themselves and how they see their ability to deal with challenges.

Responses to these questions are scored and categorised as follows:

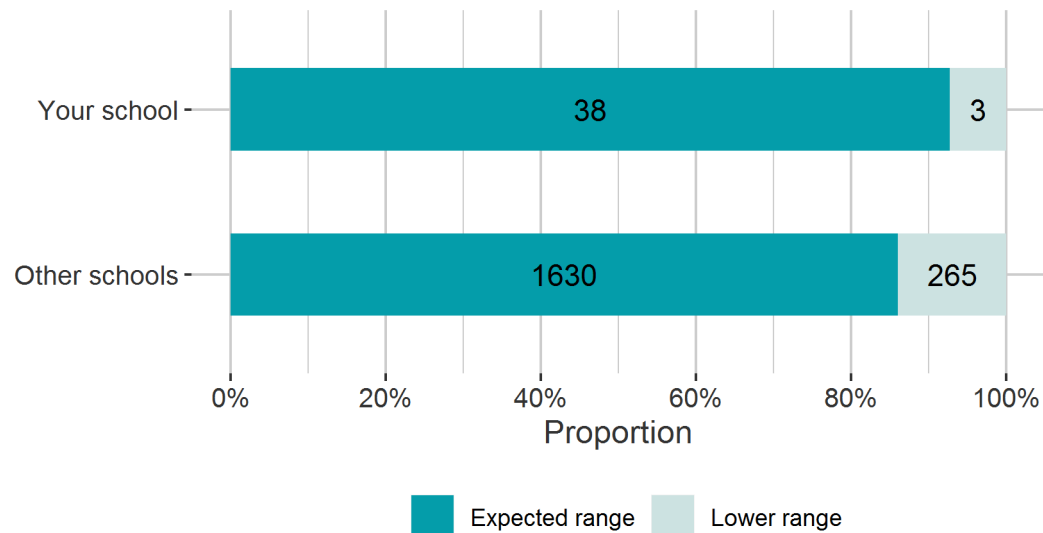
- Expected range – pupils who are scoring as expected for pupils their age
- Lower range – pupils whose scores indicate lower levels of self-esteem

Comparing the proportions of pupils in the expected range in your school and other schools may suggest that:



Your school year group is typical in this area

Numbers and Proportions of pupils in each range



### Response rate

(Pupils who answered the questions in this area / Pupils in year group)

Your school: 41% (41/100)

Other schools: 50% (1895/3811)

## 2.4 Problem solving

These questions are about pupils' ability to work through problems and know how to get help.

Responses to these questions are scored and categorised as follows:

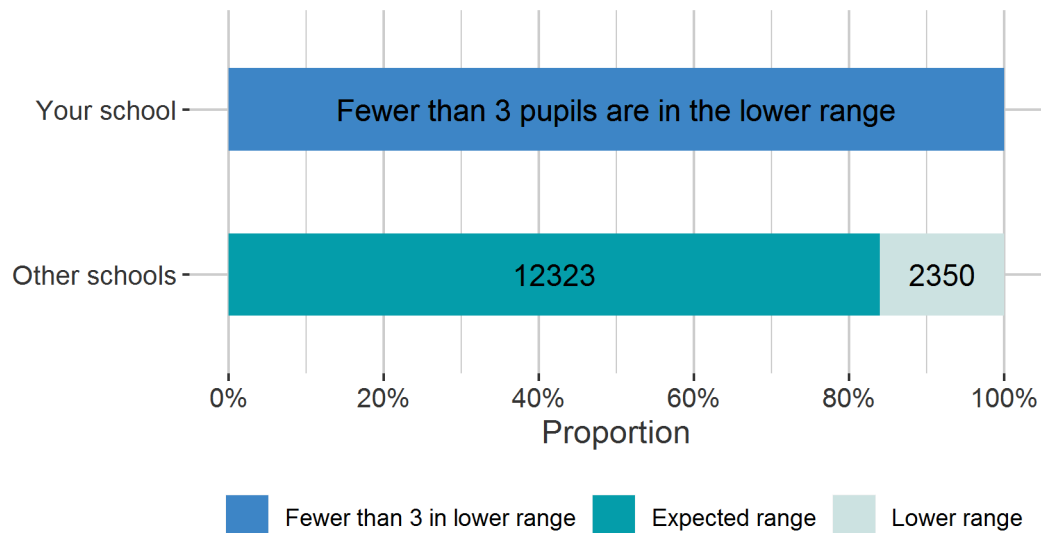
- Expected range – pupils who are scoring as expected for pupils their age
- Lower range – pupils whose scores indicate more difficulties with problem solving

Comparing the proportions of pupils in the expected range in your school and other schools may suggest that:



This is an area of strength for your school year group

Numbers and Proportions of pupils in each range



### Response rate

(Pupils who answered the questions in this area / Pupils in year group)

Your school: 38% (38/100)

Other schools: 79% (14673/18596)

## 2.5 Goal setting

These questions are about whether pupils have goals, plans and aspirations.

Responses to these questions are scored and categorised as follows:

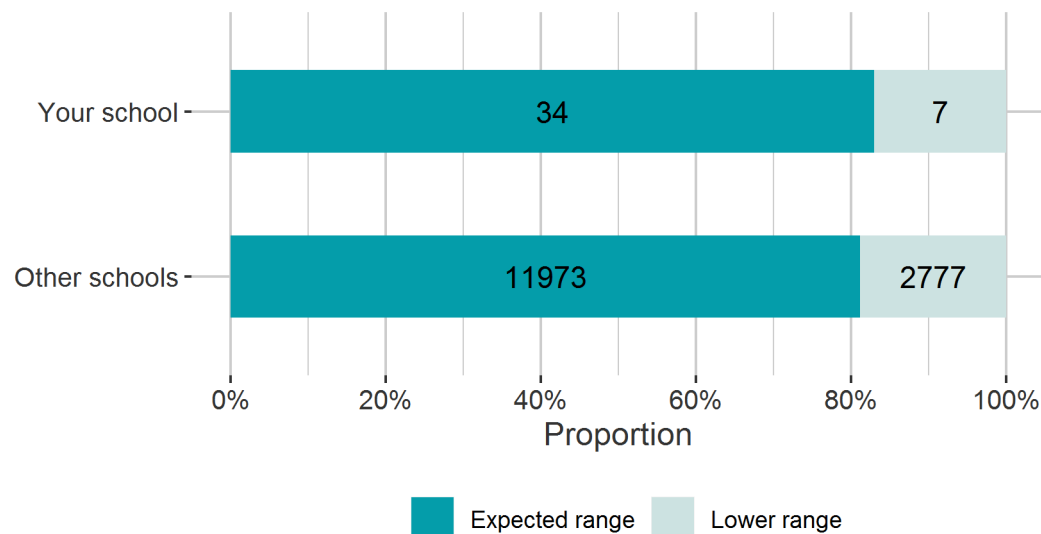
- Expected range – pupils who are scoring as expected for pupils their age
- Lower range – pupils whose scores indicate more difficulties with setting goals

Comparing the proportions of pupils in the expected range in your school and other schools may suggest that:



Your school year group is typical in this area

Numbers and Proportions of pupils in each range



Response rate

(Pupils who answered the questions in this area / Pupils in year group)

Your school: 41% (41/100)

Other schools: 79% (14750/18596)

## 2.6 Participation in home and school

These questions are about pupils making a positive contribution at home and in school.

Responses to these questions are scored and categorised as follows:

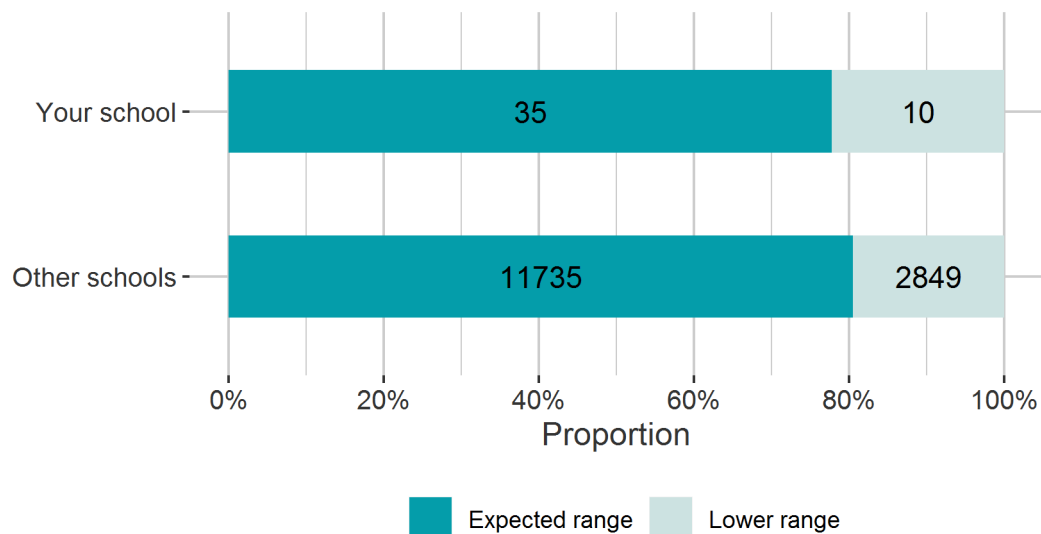
- Expected range – pupils who are scoring as expected for pupils their age
- Lower range – pupils whose scores indicate lower levels of participation.

Comparing the proportions of pupils in the expected range in your school and other schools may suggest that:



Your school year group is typical in this area

Numbers and Proportions of pupils in each range



### Response rate

(Pupils who answered the questions in this area / Pupils in year group)

Your school: 45% (45/100)

Other schools: 78% (14584/18596)



## 2.7 Participation in community

These questions are about the extent to which pupils participate in activities outside home and school.

Responses to these questions are scored and categorised as follows:

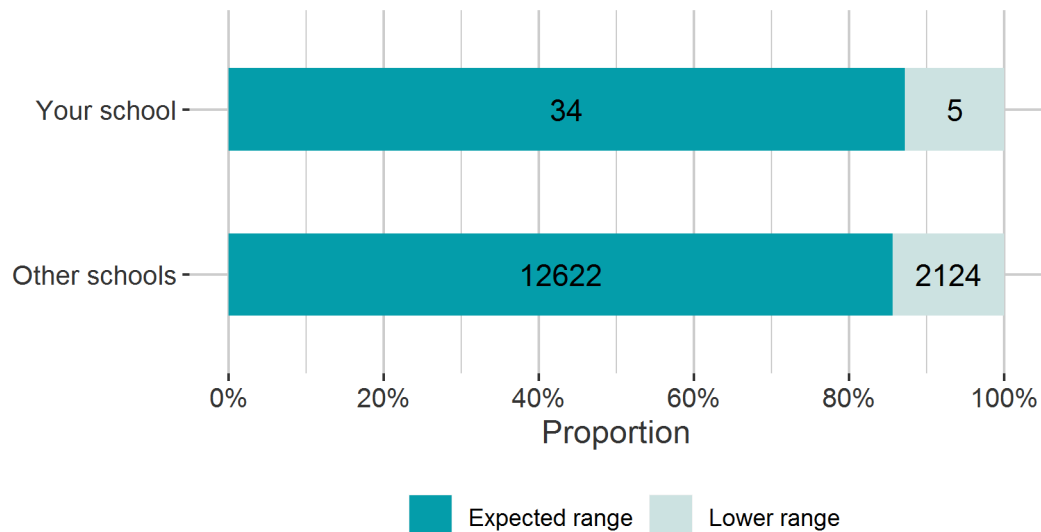
- Expected range – pupils who are scoring as expected for pupils their age
- Lower range – pupils whose scores indicate lower levels of participation.

Comparing the proportions of pupils in the expected range in your school and other schools may suggest that:



Your school year group is typical in this area

Numbers and Proportions of pupils in each range



### Response rate

(Pupils who answered the questions in this area / Pupils in year group)

Your school: 39% (39/100)

Other schools: 79% (14746/18596)

# 3. Support networks

This section of the Wellbeing Measurement Report looks at pupil responses with respect to their support networks. This includes:

3.1 Peer support

3.2 School support

3.3 Family support

3.4 Wider support

## Ofsted

This score is relevant to both the “behaviour and attitudes” aspect of the Ofsted framework (Ofsted, 2019). Specifically:

*“Inspectors will take into account the views of these pupils, their experiences of others’ behaviour and attitudes towards them, ” ( p. 54) and “positive and respectful school culture in which staff know and care about pupils”(p.52)*

*Behaviour and attitudes: Outstanding (1) grade descriptor: “Pupils actively support the wellbeing of other pupils” (p.56).*

# 3.1 Peer support

These questions are about the extent to which support is received from peers.

Responses to these questions are scored and categorised as follows:

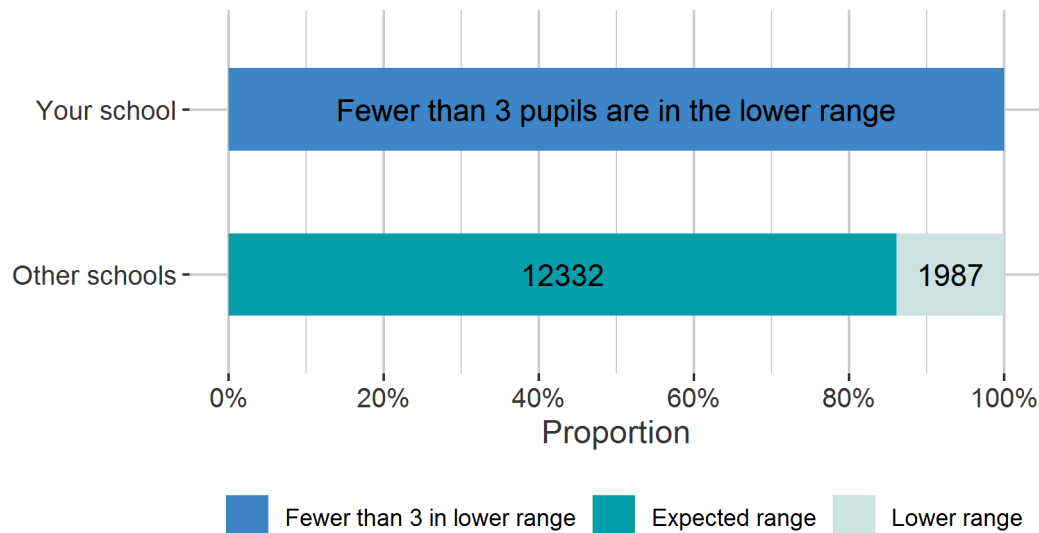
- Expected range – pupils who are scoring as expected for pupils their age
- Lower range – pupils whose scores indicate feeling less supported by peers

Comparing the proportions of pupils in the expected range in your school and other schools may suggest that:



This is an area of strength for your school year group

### Numbers and Proportions of pupils in each range



### Response rate

(Pupils who answered the questions in this area / Pupils in year group)

Your school: 46% (46/100)

Other schools: 77% (14319/18596)

## 3.2 School support

These questions are about the extent to which support is received from an adult at school.

Responses to these questions are scored and categorised as follows:

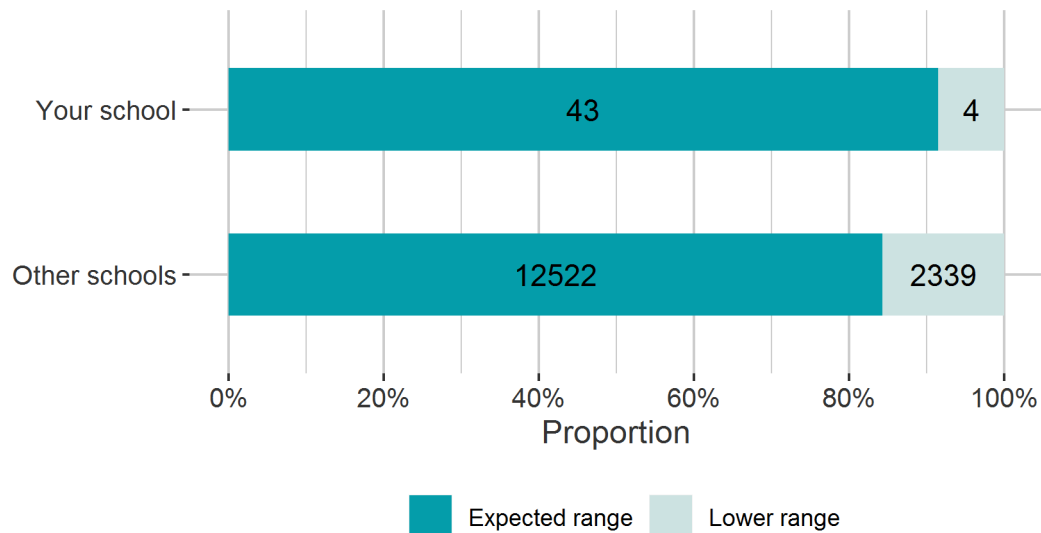
- Expected range – pupils who are scoring as expected for pupils their age
- Lower range – pupils whose scores indicate feeling less supported by an adult at school

Comparing the proportions of pupils in the expected range in your school and other schools may suggest that:



Your school year group is typical in this area

Numbers and Proportions of pupils in each range



### Response rate

(Pupils who answered the questions in this area / Pupils in year group)

Your school: 47% (47/100)

Other schools: 80% (14861/18596)

# 3.3 Family support

These questions are about the extent to which support is received from an adult at home.

Responses to these questions are scored and categorised as follows:

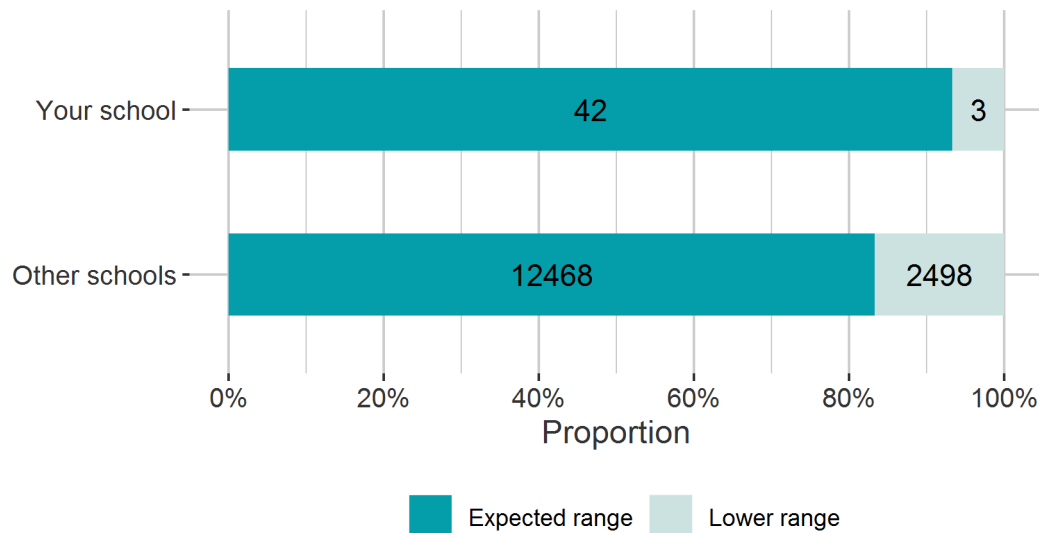
- Expected range – pupils who are scoring as expected for pupils their age
- Lower range – pupils whose scores indicate feeling less supported by an adult at home

Comparing the proportions of pupils in the expected range in your school and other schools may suggest that:



This is an area of strength for your school year group

### Numbers and Proportions of pupils in each range



### Response rate

(Pupils who answered the questions in this area / Pupils in year group)

Your school: 45% (45/100)

Other schools: 80% (14966/18596)

## 3.4 Wider support

These questions are about the extent to which support is received from an adult away from school.

Responses to these questions are scored and categorised as follows:

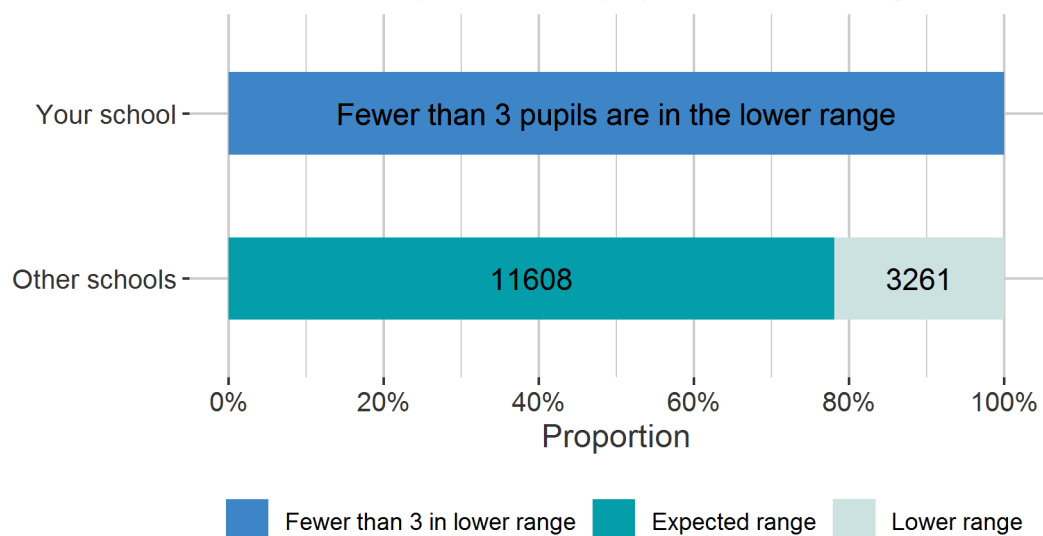
- Expected range – pupils who are scoring as expected for pupils their age
- Lower range – pupils whose scores indicate feeling less supported by the community

Comparing the proportions of pupils in the expected range in your school and other schools may suggest that:



This is an area of strength for your school year group

### Numbers and Proportions of pupils in each range



### Response rate

(Pupils who answered the questions in this area / Pupils in year group)

Your school: 47% (47/100)

Other schools: 80% (14869/18596)

# Appendices

**Appendix 1: Individual scale items**

**Appendix 2: Expected, elevated and lower ranges**

**Appendix 3: Acknowledgements and comparator data**

**Appendix 4: Red, amber and green indicators**

# Appendix 1: Individual scale items

## Emotional difficulties<sup>1</sup>

**Scoring scale:** 3-point Likert scale - Never, Sometimes, Always - scored from 0 – 2

I feel lonely
I cry a lot
I am unhappy
Nobody likes me
I worry a lot
I have problems sleeping
I wake up in the night
I am shy
I feel scared
I worry when I am at school

## Behavioural difficulties<sup>1</sup>

**Scoring scale:** 3-point Likert scale - Never, Sometimes, Always - scored from 0 – 2

I get very angry
I lose my temper
I hit out when I am angry
I do things to hurt people
I am calm
I break things on purpose

<sup>1</sup>Deighton, J., Tymms, P., Vostanis, P., Belsky, J., Fonagy, P., Brown, A., Martin, A., Patalay, P. & Wolpert, W. (2013). The Development of a School-Based Measure of Child Mental Health. *Journal of Psychoeducational Assessment*, 31(247)



# Appendix 1: Individual scale items

## Life Satisfaction<sup>2</sup>

**Scoring Scale:** 6-point Likert scale - Strongly disagree, Moderately disagree, Mildly disagree, Mildly agree, Moderately agree, Strongly agree - scored from 1 – 6

	My life is going well
	My life is just right
	I would like to change many things in my life
	I wish I had a different kind of life
	I have a good life
	I have what I want in life
	My life is better than most kids

<sup>2</sup>Huebner, E. S. (1991). Initial development of the Students' Life Satisfaction Scale. *School Psychology International*, 12, 231-243.

# Appendix 1: Individual scale items

## Empathy<sup>3,4</sup>

**Scoring Scale:** 5-point Likert scale – Never to Always - scored from 1 – 5

I feel bad when someone gets their feelings hurt
I try to understand what other people feel

## Self-esteem<sup>3,4</sup>

**Scoring Scale:** 5-point Likert scale – Never to Always - scored from 1 – 5

I can work out my problems
I can do most things if I try
There are many things that I do well

## Problem solving<sup>3,4</sup>

**Scoring Scale:** 5-point Likert scale – Never to Always - scored from 1 – 5

When I need help, I find someone to talk to
I know where to go for help when I have a problem
I try to work out problems by talking about them

## Goal setting<sup>3,4</sup>

**Scoring Scale:** 5-point Likert scale – Never to Always - scored from 1 – 5

I have goals and plans for the future
I think I will be successful when I grow up

## Participation in home and school<sup>3,4</sup>

**Scoring Scale:** 5-point Likert scale – Never to Always - scored from 1 – 5

I do things at home that make a difference (i.e. make things better)
I help my family make decisions
At school, I decide things like class activities or rules
I do things at school that make a difference (i.e. make things better)

## Participation in community<sup>3,4</sup>

**Scoring Scale:** 5-point Likert scale – Never to Always - scored from 1 – 5

Away from school...
...I am a member of a club, sports team, church group or other group
...I take lessons in music, arts, sports, or have a hobby

<sup>3</sup>Sun, J., & Stewart, D. (2007). Development of population-based resilience measures in the primary school setting. *Health Education, 7*(6).

<sup>4</sup>Lereya et al. (2016) The student resilience survey: psychometric validation and associations with mental health. *Child Adolescent Psychiatry Mental Health, 10*(44)

# Appendix 1: Individual scale items

## Peer support<sup>3,4</sup>

**Scoring Scale:** 5-point Likert scale – Never to Always - scored from 1 – 5

### *Are there students at your school who would...*

...choose you on their team at school

...explain the rules of a game if you didn't understand them

...invite you to their home

...share things with you

...help you if you hurt yourself

...miss you if you weren't at school

...make you feel better if something is bothering you

...pick you for a partner

...help you if other students are being mean to you

...tell you you're their friend

...ask you to join in when you are all alone

...tell you secrets

<sup>3</sup>Sun, J., & Stewart, D. (2007). Development of population-based resilience measures in the primary school setting. *Health Education, 7*(6).

<sup>4</sup>Lereya et al. (2016) The student resilience survey: psychometric validation and associations with mental health. *Child Adolescent Psychiatry Mental Health, 10*(44)

# Appendix 1: Individual scale items

## School support<sup>3,4</sup>

**Scoring Scale:** 5-point Likert scale – Never to Always - scored from 1 – 5

<i>At school, there is an adult who...</i>	
	...really cares about me
	...tells me when I do a good job
	...listens to me when I have something to say
	...believes that I will be a success

## Family support<sup>3,4</sup>

**Scoring Scale:** 5-point Likert scale – Never to Always - scored from 1 – 5

<i>At home, there is an adult who...</i>	
	...is interested in my school work
	...believes that I will be a success
	...wants me to do my best
	...listens to me when I have something to say

## Wider support<sup>3,4</sup>

**Scoring Scale:** 5-point Likert scale – Never to Always - scored from 1 – 5

<i>Away from school, there is an adult who...</i>	
	...really cares about me
	...tells me when I do a good job
	...believes that I will be a success
	...I trust

<sup>3</sup>Sun, J., & Stewart, D. (2007). Development of population-based resilience measures in the primary school setting. *Health Education, 7*(6).

<sup>4</sup>Lereya et al. (2016) The student resilience survey: psychometric validation and associations with mental health. *Child Adolescent Psychiatry Mental Health, 10*(44)

## Appendix 2: Expected, elevated and lower ranges – year 7

Scale	How individual items are aggregated	Expected range	Elevated range	Lower range
Emotional difficulties	Sum	0 – 9	10 – 20	--
Behavioural difficulties	Sum	0 – 5	6 – 12	--
Life Satisfaction	Mean	4 – 6	--	1 – 3.99
Empathy	Sum	7 – 10	--	2 – 6
Self-esteem	Sum	10 – 15	--	3 – 9
Problem solving	Sum	8 – 15	--	3 – 7
Goal setting	Sum	7 – 10	--	2 – 6
Participation in home and school	Sum	11 – 20	--	4 – 10
Participation in community	Sum	4 – 10	--	2 – 3
Peer support	Sum	37 – 60	--	12 – 36
School support	Sum	12 – 20	--	4 – 11
Family support	Sum	16 – 20	--	4 – 15
Wider support	Sum	16 – 20	--	4 – 15

# Appendix 2: Expected, elevated and lower ranges

## How categorisation is determined

### Emotional difficulties; Behavioural difficulties

The expected and elevated range scores are based on the clinical cut-offs established by Deighton et al. (2013)<sup>1</sup>. The expected range in this report consists of scores that are lower than the borderline cut-off in Deighton et al. (2013).

### Life satisfaction

The expected and lower range scores are based on a categorisation of low and high scores from Suldo et al. (2016)<sup>5</sup>. The expected range in this report consists of scores that are included in the medium and high categories in Suldo et al. (2016).

### Empathy; Self-esteem; Problem; Goal setting; Participation in home and school; Participation in community; Peer support; School support; Family support; Wider support

The expected and lower range scores for each year group are based on analysis of data collected during Phase 2 of the HeadStart programme<sup>6</sup>. Scale scores for each pupil were ordered from low to high and the range of scores that corresponded to the highest 85% were taken to be the expected range for this report. In cases where the spread of the scores did not allow exact identification of the highest 85%, the range of scores that corresponded to a percentage closest to 85% were taken.

<sup>1</sup>Deighton, J., Tymms, P., Vostanis, P., Belsky, J., Fonagy, P., Brown, A., Martin, A., Patalay, P. & Wolpert, W. (2013). The Development of a School-Based Measure of Child Mental Health. *Journal of Psychoeducational Assessment*, 31(247)

<sup>5</sup>Suldo, S. M (2016). Promoting Student Happiness: Positive Psychology Interventions in Schools

<sup>6</sup><https://www.ucl.ac.uk/evidence-based-practice-unit/headstart-learning-team>

# Appendix 3: Acknowledgements and comparator data

## Acknowledgements

### Wellbeing Measurement Framework

Aspects of the Wellbeing Measurement Framework have been developed using National Lottery funding by the EBPU in collaboration with the Big Lottery Fund and HeadStart partnerships.

HeadStart is a five-year, £56 million National Lottery funded programme set-up by the Big Lottery Fund, the largest funder of community activity in the UK. It aims to explore and test new ways to improve the mental health and wellbeing of young people aged 10 – 16 and prevent serious mental-health issues from developing. Six local authority led HeadStart partnerships in Blackpool, Cornwall, Hull, Kent, Newham and Wolverhampton are working with local young people, schools, families, charities and public services to make young people's mental health and wellbeing everybody's business.

# Appendix 3: Acknowledgements and comparator data

## Comparator data




The data you see throughout the report from 'other schools' is sourced from the following:

Year group	Section of report	Source
7	Mental health and wellbeing section Self-esteem in the Emotional strengths and skills section	Responses from year 7 pupils in 24 HeadStart schools, 2015
7	Life Satisfaction in the Emotional strengths and skills section	Responses from year 7 pupils in 41 Education for Wellbeing schools, 2018
7	Emotional strengths and skills section except Life Satisfaction and Self-esteem Support networks section	Responses from year 7 pupils in 113 HeadStart schools, 2017



# Appendix 4: Red, amber and green indicators

Where there are 10 or more survey responses, the red, amber and green indicators are assigned according to the following criteria:

	<p><math>p</math>-value &lt; 0.1 <b>and</b> Proportion in expected group is lower in your School sample than in 'other Schools'</p>		<p><math>p</math>-value <math>\geq</math> 0.1</p>		<p><math>p</math>-value &lt; 0.1 <b>and</b> Proportion in expected group is higher in your School sample than in 'other Schools'</p>
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The following slide explains in more detail what  $p$ -values are and the  $p$ -value threshold used in these reports.

# Appendix 4: Red, amber and green indicators

Where there is an observed difference in the proportion of pupils in the expected range between your school and other schools, the Fisher's exact test of independence is used to determine whether this difference is greater than what would be expected by sampling variability alone<sup>6</sup>. Sampling variability arises from measuring the wellbeing of samples of pupils in your school and other schools, rather than all pupils. Measuring the wellbeing of another sample taken from the same population would not give exactly same results.

The test calculates the likelihood of getting the observed proportions or more extreme under the assumption that the difference in the proportion of pupils is what would be expected by sampling variability alone. This likelihood is given by the  $p$ -value of the test.

While a  $p$ -value threshold of 0.05 is most commonly used in research studies, we have selected a less stringent threshold of 0.1 for these reports. This is because of the small samples within schools which make it less likely to detect differences if  $p < 0.05$  is applied. However, this also has the effect of somewhat reducing the reliability of the findings i.e. increasing the chance that a difference being flagged is in fact due to sampling variability rather than a true difference between your school and comparison data.

Specifically, by using a  $p$ -value threshold of 0.1, the chances that a red or green indicator is wrong due to sampling variability could be as high as 1 in 10. This underscores the need to consider the size of the difference between your school and other schools in the context of other information, as recommended in the introductory pages of the report.

<sup>6</sup> John H. McDonald, Handbook of Biological Statistics: Fisher's exact test of independence, <http://www.biostathandbook.com/fishers.html> .



CORC is the leading membership organisation that collects and uses evidence to improve children and young people's mental health and wellbeing. CORC members include mental health service providers, schools, professional bodies and research institutions from across Europe and beyond.

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## EBPU

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The Evidence Based Practice Unit (EBPU) bridges cutting-edge research and innovative practice in children's mental health and wellbeing. EBPU are the guardians of the academic rigour underpinning this measurement framework, now and in the future, and are committed to finding the best ways to use measurement of wellbeing to enhance support for children and families.

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