

## Parental Information Sheet

Numer8ED: Cross-format number integration and its relationship to mathematics performance

It is important to be aware of information that is provided by the Department of Psychology about the general terms and conditions that apply with respect to the processing of personal data. Please consult: - <https://wiki.york.ac.uk/display/PsySharedDocs/Key+information+about+GDPR>

### 1) Background

The University of York would like to invite you to continue to allow your child take part in the following research project.

Before agreeing to take part, please read this information sheet carefully and let us know if anything is unclear or you would like further information.

Please note that if, in the course of our study, we discover something that raises concerns about your child's safety or the safety of others, we are obliged to seek further expert help and advice.

### 2) What is the purpose of the study?

The study is designed to investigate whether the ease with which children translate spoken number words (e.g. 'four') to Arabic digits (e.g. 4) is foundational for mathematical development in primary school.

### 3) Why is my child being invited to take part?

The invitation relates to a research project that depends on testing as many children as possible that were invited to take part in the first assessment in 2017 and the second assessment in 2018. These children are now aged between 7 and 8 years (from Year 3). Your child has been chosen to take part because they fit these criteria. The head teacher of your child's school has provided consent for the Year 3 children to be invited to take part again.

### 4) Do I have to agree to allow my child to be tested?

No, participation is optional. If you do not want your child to participate in this study, please send an email to [numer8ed@york.ac.uk](mailto:numer8ed@york.ac.uk) telling us the name of your child, the school your child is going to and the class your child is in. Alternatively, you may prefer to fill in the slip at the bottom of this document and hand it in to your child's teacher to be passed to the researchers.

If you would like your child to participate in this study, you do not need to reply to this letter. Even if you do not opt your child out, you will still be able to withdraw your child at any time and without giving a reason.

### 5) What will my child be asked to do?

Children will be assessed at three time-points, with the first and second assessment already completed at the end of Year 1 and at the end of Year 2. The final time-point will take place approximately 12 months later at the end of Year 3, in accordance with your school's timetable. For example, testing could take place in June 2017, June 2018 and June 2019.

At the third time-point, children will complete one individual assessment session and two classroom assessment sessions.

Individual activities: Will include short individual measures looking at children's number knowledge and reading.

- Single word/non-word reading
- Computer based tasks measuring quick recognition of number words
- Computer based task measuring conceptual understanding of maths

Classroom activities: Will include measures of numeracy and number sense.

- Numeracy (timed and non-timed maths problems e.g.  $2 + 7 =$  )
- Fraction writing (translating number words to Arabic digits)
- Conversion tasks (converting currency, time and length)
- Comparison tasks (e.g., which is the larger number 5 or 9?)
- Where will the research sessions take place?

The session will take place in school. The total testing time for individual sessions should not exceed 30 minutes. Classroom based sessions will take around 90 minutes in total and will be completed across two sessions. Children will be able to take a short break during each session and will be rewarded with a sticker for their participation. Every effort will be made to ensure that the research sessions are as enjoyable and relaxed as possible for the children.

#### 7) Who will run the testing sessions?

All our researchers have Disclosure and Barring Service (DBS, formerly, Criminal Record Bureau, CRB) clearance for working with children. Dr Francina Clayton, Clare Copper, Anna Wilson, Sophie McHale, Francesca Fiore and Erin Eachus will meet the children taking part and run the sessions.

#### 8) Will you share my child's data with 3rd parties?

No. Data will be accessible to the project team at York only.

Anonymised data may be reused by the research team or other third parties for secondary research and/or teaching purposes.

#### 9) Will you transfer my child's data internationally?

Anonymised data will be transferred to collaborators at the University of Graz for research purposes.

#### 10) Will my child be identified in any research outputs?

No.

#### 11) Questions or concerns

If you have any questions about this information sheet or concerns about how your child's data is being processed, please contact Dr Silke Göbel in the first instance. If you are still dissatisfied, please contact the University's Acting Data Protection Officer at [dataprotection@york.ac.uk](mailto:dataprotection@york.ac.uk).

Contact Details: Dr Silke Göbel, Department of Psychology,  
University of York, York, YO10 5DD  
Phone: 01904 322872  
E-mail: [numer8ED@york.ac.uk](mailto:numer8ED@york.ac.uk)

**Parental Declaration of Opt-Out Consent**

Numer8ED: Cross-format number integration and its relationship to mathematics performance

**PLEASE DO NOT TEST MY CHILD IN THIS STUDY**

Please  
circle  
either YES  
or NO

1. I have read and understood the information sheet entitled 'Numer8ED: Cross-format number integration and its relationship to mathematics performance', and I have had chance to discuss the study and to ask questions.
2. I do **not** want my child to be tested in the study.

YES / NO

YES / NO

Name of Child (BLOCK LETTERS): .....

Child's School (BLOCK LETTERS): .....

**Please return this form by [DATE], if you do NOT want your child to take part in the study.  
Alternatively, email this information to us by the same date at [numer8ED@york.ac.uk](mailto:numer8ED@york.ac.uk) if you do  
NOT want your child to take part in the study.**

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**3. PARTICIPANT**

Signature of Participant..... Date.....

Name (BLOCK LETTERS) .....

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**4. INVESTIGATOR**

I have explained the study to the signatory and he/she has indicated his/her willingness to allow their child to participate in the described research.

Signature of Investigator..... Date.....

Name (BLOCK LETTERS) .....

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