

Headteacher 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>

This document explains why we are doing in this research project and sets out what will be involved for the school and the children. We will also provide copies of the information and consent forms that we would like to issue to parents/guardians of the children. Please note that if, in the course of our study, we discover something that raises concerns about the children's safety or the safety of others, we are obliged to seek further expert help and advice.

1) Background

The University of York would like to invite you to allow certain children at your school to continue to 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.

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) What sort of children are we seeking to involve?

This request relates to a research project that depends on testing as many children as possible that took 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).

4) Who will give consent for a child to take part?

As before, parents will have the option to opt-out of the study if they would not like their child to take part (see attached form(s)). It will be made clear that the study is entirely voluntary and, even having given consent, that any child is free to stop participating at any time without giving a reason. We also need your consent to proceed with the study, and similarly, you can withdraw your school from participation at any time during data collection.

5) What will the children 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 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. By completing the majority of assessments in a large group setting, we will be able to complete the project in a timely and efficient manner, and therefore reduce the level of disruption to the school schedule.

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 (changing currency, time and length)
- Comparison tasks (e.g., which is the larger number 5 or 9?)

As before, our authorised researchers would need access to a quiet area to complete individual testing sessions. We will provide our own equipment for the children to complete the tasks, but will require access to a classroom for the group testing, ideally with a Smart-Board.

The total testing time for individual sessions should not exceed 30 minutes. Classroom based sessions will take around 90 minutes in total. Children will be able to take a short break during each session and will be rewarded with a sticker for their participation.

We will take every care to keep disruption to the school routine to a minimum. Every effort will be made to ensure that the research sessions are as enjoyable and relaxed as possible for the children.

6) 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.

7) Will you share children's data with 3rd parties? No. Data will be accessible to the project team at York only. We would like to assure you that information from the study will be kept strictly confidential. Children's results will be identified by code number only. Anonymised data may be reused by the research team or other third parties for secondary research and/or teaching purposes.

8) Will you transfer the data internationally? Anonymised data will be transferred to collaborators at the University of Graz for research purposes.

9) Will children be identified in any research outputs? No

10) 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.

Contact Details: Dr Silke Göbel, Department of Psychology,
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Head Teacher Consent Form

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

Declaration of Consent

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. YES / NO
2. I have had satisfactory answers to all of my questions. YES / NO
3. Who has explained the study to you?
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4. In acting for my school, I understand that I am free to withdraw from engaging from the study: YES / NO
 - At any time.
 - Without having to give a reason.
5. I understand that the research depends on obtaining opt-out consent from parents/guardians and permit the study to go ahead on this basis. YES / NO
6. If I have any questions or concerns about the research, I know I can contact Dr Silke Göbel via email numer8ED@york.ac.uk or by phone 01904 322872. YES / NO
7. I accept the terms and conditions of this study and consent that the research, as described, be undertaken with the cooperation of my school. YES / NO

8. HEAD TEACHER

Signature of Head Teacher..... Date.....

Name (BLOCK LETTERS)

9. INVESTIGATOR

I have explained the study to the named Head Teacher and he/she has indicated his/her willingness to allow the study to take place with the cooperation of his/her school .

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

Name (BLOCK LETTERS)
