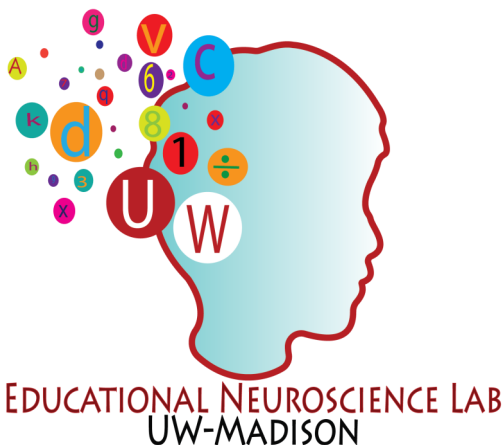


Is your child in 2nd or 5th grade, right handed, and a fluent English speaker?

The Longitudinal Analysis of Mathematical Brain Development and Abilities (LAMBDA) study UW-Madison is inviting children in 2nd and 5th grade to participate in a 4-year longitudinal study that investigates how math and number skills develop and how the brain changes during these ages, especially as it relates to math and number abilities.



Children will:

- ♦ play fun games on a computer
- ♦ practice staying still in a mock MRI
- ♦ have their brain activity recorded in an MRI scanner
- ♦ receive \$10 for computer sessions
- ♦ receive \$50 for scan sessions

Interested in participating?

Contact the Ed. Neuro. Lab: (608) 263-4011 or lambda@education.wisc.edu

This is not a school-sponsored activity and the Middleton-Cross Plains Area School District does not provide support or endorsement for this program/activity. It has neither reviewed nor approved the program, personnel, or activities announced in this flyer. Permission to distribute this material must not be considered a recommendation or endorsement by the school district.



Department of Educational Psychology

Educational Sciences Building
1025 W. Johnson Street
Madison, Wisconsin 53706-1796
Phone: 608-262-~~0843~~3432
Fax: 608-262-0843

[DATE]

Dear Parent or Guardian,

A research team from the University of Wisconsin-Madison will soon begin a research study with families from your child's school, daycare or after care center. The team is studying children's abilities to understand the sizes of symbolic fractions (like $\frac{3}{4}$) and nonsymbolic versions of fractions (pictures like ●). Understanding fraction sizes is important for later success in mathematics, and the lab is studying how fraction knowledge emerges, how it is related to other abilities, and how it can be improved. We would like to invite you and your child to participate. If you choose to participate, your family will join part of group of families whose children will take part in several study sessions, which will take place on the UW-Madison campus over the next four years. Children will complete several activities, including:

1. Making judgments about the sizes of different numbers and picture quantities. For example, your child may be asked to choose which of two ratios made of circles or line segments is larger (like ● vs. ●).
2. Completing tasks measuring number knowledge and other abilities, like vocabulary and spatial abilities.

These activities will help us understand how basic visual skills relate to students' understanding of fractions. You may also be invited to have your child participate in activities that use brain scans to see how his or her brain reacts to the training they receive. If you would like more information on the types of studies that are available and how you might enroll, please fill out the form below and have your child return it. Participation is completely voluntary and the decision to participate or not will not impact your child in any way.

Participating families will also be enrolled in our LAMBDA Learning Community (LAMBDA stands for Longitudinal Analysis of Mathematical Brain Development and Abilities). As a member of LAMBDA you will receive birthday and holiday cards, our periodic newsletter keeping you up to date on interesting developments in research and Madison community events, and invitations to our bi-annual family fun events where you can meet other members of our community.

Our team leaders, Edward Hubbard and Percival Matthews, are researchers at UW-Madison who have worked with many elementary and middle school aged students throughout their careers. We hope these studies can help us find new ways to make mathematics instruction more meaningful for young learners.

If you would like your child to participate, please fill out the section below giving us permission to contact you and return it in the included postage paid envelope. We will then mail you further information about the studies and how you can sign your child up. Also, please feel free to contact us by phone or email with any questions you may have.

Thank you,

Principal Investigators –

Edward Hubbard, PhD, emhubbard@wisc.edu, phone: (608) ~~262-0843890-3625~~

Percival Matthews, PhD, pmatthews@wisc.edu, phone: (608) 263-3600

Please contact me with more information about how my child, _____, might participate in this study. (Check all that apply below) (print child's name)

Name of Parent/Guardian (please print): _____

Parent/Guardian Signature: _____ Date: _____

Email (optional): _____ Phone: _____

Street Address: _____

City: _____ State: _____ Zip: _____

Preferred method of contact (check one):

Phone _____ Email _____ Other (please specify) _____