

Learning to learn in primary schools

Submission date 18/01/2016	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 29/07/2016	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 05/08/2019	Condition category Other	<input type="checkbox"/> Individual participant data

Plain English summary of protocol

Background and study aims

The ReflectED approach aims to support primary school age pupils in 'learning to learn' by developing their metacognitive skills. Metacognition, or self-regulation, is often described as 'learning to learn' and focuses on encouraging learners to reflect on how they learn, and then to develop strategies to improve these learning processes and their motivation. Metacognition is widely believed to have a positive impact on children's development and most studies suggest positive outcomes. Teachers at Rosendale primary school developed the ReflectED approach over a number of years before it was developed into a set of weekly lessons specifically for the schools involved in this study. The lessons, produced as a specially designed workbook, were adapted from the teachers' own practice in Rosendale school, but developed into a training programme for the children in the study to become effective reflectors. The aim of this study is to assess the impact of the ReflectED approach on children's progress and attitudes in maths and reading.

Who can participate?

Year 5 children aged 9-10 in primary schools in the UK

What does the study involve?

Classes are randomly allocated into two groups: intervention and control. Children in the control classes receive 'business as usual' teaching. Children in the intervention classes receive a weekly ReflectED lesson from trained teachers following a series of expertly designed lesson plans. These lessons both introduce the children to reflection via various different tasks and introduce them to the process. For example, in the first lesson children are encouraged to think about when they learned something new and then taught to juggle or do origami. Throughout this lesson they are talking about how the instruction helps them to learn, but also about learning in stages and practising. The process also includes the use of the software Evernote to record the children's reflections into a tagged database. A number of lessons in the first term focus on both getting the children to understand how to reflect, but also to record this using the Evernote software. As the year progresses teachers encourage pupils to use Evernote to record their reflections on a regular basis, ideally several times a week, across different subjects. Children 'tag' their reflections – this enables them, and the teacher, to go back to reflections to inform future teaching and learning.

What are the possible benefits and risks of participating?

Children in the intervention classes are encouraged to develop the skills of being able to actively engage in their own learning processes, being able to develop a better sense of how they are learning, what they learn well and what areas of the curriculum they find more challenging. Following the initial year-long study it is expected that the schools will take on the approach and develop it more widely in the school.

Where is the study run from?

Manchester Institute of Education (UK)

When is the study starting and how long is it expected to run for?

January 2014 to July 2015

Who is funding the study?

Education Endowment Foundation (UK)

Who is the main contact?

Dr Gary Motteram

Study website

<https://educationendowmentfoundation.org.uk/projects/reflected-meta-cognition-rosendale-primary-school/>

Contact information

Type(s)

Public

Contact name

Dr Gary Motteram

ORCID ID

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Contact details

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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

N/A

Study information

Scientific Title

Primary age children's experiences of metacognition using a two-arm randomised controlled trial to measure achievement on maths, reading and attitudes to learning

Study objectives

The principal research question is:

What is the impact of the ReflectED approach on progress in maths, reading and attitudes?

Other questions connected to the process approach include:

1. What are the teachers' understandings of metacognition?
2. What value do the schools see in the ReflectED approach?
3. What are the teachers' attitudes towards the intervention?
4. What are the learners' attitudes to the approach?
5. What do teachers and learners perceive the benefits to be?
6. Is the approach scalable?
7. What are the barriers to delivery?

Ethics approval required

Old ethics approval format

Ethics approval(s)

University of Manchester Research Ethics Committee, ref: 14225

Study design

School-based randomised control trial

Primary study design

Interventional

Secondary study design

Cluster randomised trial

Study setting(s)

School

Study type(s)

Other

Participant information sheet

Not available in web format, please use the contact details below to request a patient information sheet

Health condition(s) or problem(s) studied

N/A

Interventions

The trial involves 30 schools with a minimum of two-form entry. Typical class sizes in the schools are between 25-30. Classes are randomly allocated into two arms: intervention (ReflectED) and control (business as usual)

The intervention consists of a year-long trial of a training process (ReflectED) to enable children to learn better how to be aware of learning and how they can improve their learning. There are a total of 28 lessons in the materials. These lessons both introduce the children to reflection via various different tasks and introduce them to the process. For example, in the first lesson children are encouraged to think about when they learned something new and then taught to juggle or do origami. Throughout this lesson they are talking about how the instruction helps them to learn, but also about learning in stages and practising. The process also includes the use of the software Evernote to record the children's reflections into a tagged database. A number of lessons in the first term focus on both getting the children to understand how to reflect, but also to record this using the Evernote software. As the year progresses teachers encourage pupils to use Evernote to record their reflections on a regular basis, ideally several times a week, across different subjects.

Intervention Type

Behavioural

Primary outcome measure

1. Reading attainment
2. Mathematics attainment
3. Reading attitudes
4. Mathematics attitude

All of the measures are based on a comparison between the children's Key Stage 1 (KS1) scores at the end of Year 2 when children are either 7 or almost 7, and their scores on the Centre for Evaluation and Monitoring (CEM) InCAS test conducted at the end of the trial (after 12 months). InCAS measures for Reading, Maths, Reading attitudes and Mathematics attitudes and a similar measure from KS1 tests was used as a baseline.

Secondary outcome measures

Gains in academic progress for children:

1. Eligible for free school meals
2. With English as an additional language
3. With Special Educational Needs

Overall study start date

01/01/2014

Completion date

31/07/2015

Eligibility

Key inclusion criteria

Year 5 children in primary schools in the UK, ages 9-10

Participant type(s)

Other

Age group

Child

Lower age limit

9 Years

Upper age limit

10 Years

Sex

Both

Target number of participants

1500

Total final enrolment

1858

Key exclusion criteria

N/A

Date of first enrolment

01/01/2014

Date of final enrolment

31/07/2014

Locations**Countries of recruitment**

England

United Kingdom

Study participating centre

Manchester Institute of Education

United Kingdom

M13 9PL

Sponsor information**Organisation**

Education Endowment Foundation (UK)

Sponsor details

9th Floor
Millbank Tower
21 – 24 Millbank
London
United Kingdom
SW1P 4QP

Sponsor type

Charity

Website

<https://educationendowmentfoundation.org.uk>

ROR

<https://ror.org/03bhd6288>

Funder(s)

Funder type

Charity

Funder Name

Education Endowment Foundation (UK)

Results and Publications

Publication and dissemination plan

To be confirmed at a later date

Intention to publish date

01/09/2016

Individual participant data (IPD) sharing plan**IPD sharing plan summary**

Stored in repository

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Funder report results	results		05/08/2019	No	No