### Protocol and SAP changes

No changes made to date.
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Introduction

There is evidence that feedback is effective in improving students' learning. However, existing evidence, as summarised in the EEF toolkit\(^1\), suggests that teachers find it hard to implement consistently and in ways that respond to students' individual learning barriers and needs. It is possible that feedback is sometimes effective in helping students to overcome specific learning barriers in the short term, but has little formative impact. A team, or whole school approach, appears to be a key component of successful feedback interventions and was included in this project through a workshop model.

The “Embedding Formative Assessment" (EFA) project is a two-year whole school professional development programme on formative assessment, which includes a day’s training and materials to deliver 18 monthly internal workshops (“Teacher Learning Communities”) in schools, in which teachers reflect on the approaches taken to improve the effectiveness of the intervention. A formative assessment is when feedback to students prompts them to do something different as a result and implicitly it will encourage them to reflect on the mistake made so the learning is embedded and they are less likely to make similar mistake or face the same issues in future. The programme operated in the 2015/16 and 2016/17 academic years and will stretch into September 2017 to enable the schools to discuss their public examination results.

The idea is that teachers can guide themselves through a pack of materials, to run a carefully structured series of workshops. The pack was developed by the schools, students and teachers network (SSAT) with Dylan Wiliam\(^2\)

For schools randomly allocated to the intervention group, Dylan Wiliam introduced the concept at a launch event attended by school-nominated “Lead Teachers”. These lead teachers then supported colleagues to run a series of structured workshops (Teacher Learning Communities) throughout a two year period. Support from SSAT was also available.

Aims and Objectives

Project Hypothesis

Use by schools of the “Embedding Formative Assessment”, a pack that promotes a systematic approach to developing high quality feedback through continuing professional development, will improve children's performance in academic tests at age 16.

Primary Research Question

How effective are the embedding formative assessment materials compared to usual feedback methods in terms of improving overall GCSE examination performance.

Secondary Research Question

How effective are the embedding formative assessment materials compared to usual feedback methods in terms of improving examination performance in Maths and English GCSEs, i.e. subjects which are of high importance in terms of progression to employment.

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\(^1\) [https://educationendowmentfoundation.org.uk/resources/teaching-learning-toolkit/feedback/](https://educationendowmentfoundation.org.uk/resources/teaching-learning-toolkit/feedback/)

\(^2\) The schools, students and teacher’s Network, and Whole School Embedding Formative Assessment Resource: [https://www.ssatuk.co.uk/cpd/teaching-and-learning/embedding-formative-assessment/](https://www.ssatuk.co.uk/cpd/teaching-and-learning/embedding-formative-assessment/)
Study design

Eligible population

The trial was a two arm cluster-randomised trial and included secondary schools drawn from across England. Although this is a whole-school intervention where students in all years will be exposed to the EFA methods, in order to provide more timely results this evaluation will focus on students starting Year 10 when the intervention began in 2015/16. Analysis of longer term impacts is beyond the scope of this SAP.

In order to be considered, schools had to agree to

- Provide student data so we can match to extracts from the National Pupil Database (NPD),
- Allow Continuing Professional Development (CPD) time for all teachers to participate in the Teaching and Learning Communities, and to
- Cooperate with the project and evaluation teams during the trial as specified in the Memorandum of Understanding with Schools.

SSAT made all secondary schools aware of the opportunity. 250 expressed an interest and 140 were chosen using a selection process that included an interview. There were no exclusion criteria and no targeting of schools by characteristics others than meeting the three criteria above.
Trial design

Randomisation took place at the school level. Schools participating in the trial were randomly assigned to either

- the intervention group, which received the EFA pack, one day’s training from Dylan Wiliam (the programme developer) at the launch event, and ongoing support by SSAT or
- a control group, which received a one-off payment of £300, the cost of purchasing the EFA pack from SSAT.

Sample size

A sample size of 120 schools with equal allocation between treatment and control was recommended by NIESR (see initial sample size calculation section below). A progress report during the second term of the trial (February 2016) suggests that the total number of schools in the trial increased to 140 following initial over-recruiting. The total number of students affected by the intervention is currently not known from the quantitative sources available to NIESR.

Trial arms

School level randomisation in two arms (intervention and control groups):

Intervention group: Purchased EFA pack (£300) and received a two-year professional development programme on formative assessment with SSAT support. This includes a day’s training for a school-nominated Lead Teacher and a pack of materials. Schools then set up “Teacher Learning Communities” (TLCs) that operated during the 2015/16 and 2016/17 academic years. TLCs met on a monthly basis to discuss and refine how they were using the materials in class. Key elements of the intervention are summarised in the table below at 4 levels, (processes, teachers, students and overall) and some example techniques are provided below the table. This approach to peer learning is not new but the extent to which it had been adopted by schools has varied and the EFA programme aimed to build on previous successes with the approach or, begin to embed the approach in schools and teachers within schools, who had not actively engaged with the techniques previously.

| Process | - Monthly TLCs include: promising colleagues will try a technique, feedback on technique used in class since previous meeting, new FA content introduced an discussed  
- Schools provide feedback to SSAT including any issues encountered and further advise provided by SSAT |
|---------|----------------------------------------------------------------------------------------------------------------------------------|
| Teachers | - Teachers give opportunities for students to take ownership of their learning  
- Teachers activate students as instructional resources for each other |
| Students | - Students support each other and are more engaged  
- students take more responsibility for their own learning |
| Overall  | - Responsibility for learning shared between teacher and students, students learn more |

Example Techniques

- Instead of marking each spelling or grammar mistake put a mark in the margin then students encouraged to find their own mistakes and correct them
- Mark students work in relation to their most recent marks (+ if it is better, = if of equal quality and – if not as good)
- Give anonymous feedback and encourage groups of around 4 students to decide which feedback relates to which piece of work
Control group: receives a one-off payment of £300 at the start of the trial (September 2015/16), the cost of purchasing the EFA pack from SSAT.

**Number and timing of measurement points**

Table 1 below, summarises the data collection schedule in the context of the project milestones.

Table 1 – Project milestones and data collection schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Milestone / Data</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring 2015</td>
<td>Milestone</td>
<td>Recruitment of participating schools</td>
</tr>
<tr>
<td>July 2015</td>
<td>Data</td>
<td>Names of Participating schools provided to NIESR by SSAT, including school URN</td>
</tr>
<tr>
<td>September 2015</td>
<td>Milestone</td>
<td>Start of school year and beginning of trial</td>
</tr>
<tr>
<td>December 2015</td>
<td>Data</td>
<td>Tier 2 NPD extract provided to NIESR by DFE. This included GCSE results for the 14/15 cohort (pre-intervention); KS2 scores and eligibility for free school meals. Used to estimate sample size</td>
</tr>
<tr>
<td>January 2016</td>
<td>Milestone</td>
<td>Analysis to confirm no systematic bias in the randomisation</td>
</tr>
<tr>
<td>September 2015 – July 2017</td>
<td>Data</td>
<td>SSAT monitoring data of which schools dropped out and which schools received the related TEEP intervention.</td>
</tr>
<tr>
<td>July 2017</td>
<td>Milestone</td>
<td>End of 2 year trial period</td>
</tr>
<tr>
<td>Expected - November 2017</td>
<td>Data</td>
<td>Tier 2 NPD National Pupil Database administrative data provided to NIESR by DFE, including KS4 achievement and student and school characteristics (for groups taking GCSE’s in 2015/16 and 2016/17).</td>
</tr>
<tr>
<td>January 2018</td>
<td>Milestone</td>
<td>Draft Evaluation report provided to EEF by NIESR</td>
</tr>
</tbody>
</table>

**Randomisation**

**Unit of randomisation**

Secondary schools, which were recruited by SSAT (N=140) were randomly assigned to intervention and control groups using econometric software (Stata) within blocks (see below).

**Blocking/stratification**

Schools were identified as belonging to blocks based on the proportion of students in each school to achieve 5 A*-C grades in the 2014 GCSE examinations (low, medium, high – where these thresholds are chosen to achieve equal sized groups), and the proportion of students in each school to be eligible for Free School Meals (FSM, low, medium, high) using DfE sources; again thresholds were chosen to achieve equal sized groups.

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3 Teacher Effectiveness Enhancement Programme (TEEP) https://www.ssatuk.co.uk/cpd/teaching-and-learning/teep/

4 Because of correlation between FSM and GCSE performance, a block with fewer than 6 schools would have been combined with the block with the same level of students achieving 5 A*-C at GCSE, but a higher proportion of FSM students (unless it is the high FSM block, in which case it would be combined with the medium block instead). However, this was not implemented in practice as all blocks were sufficiently populated.
Within the nine blocks combining the three dimensions of GCSE performance and FSM, schools were randomly allocated to treatment and control groups (half each). This was achieved using a random number generator:

- Each school was assigned a randomly generated number between 0 and 1 using the Stata command 'runiform' with seed 2387427. The randomisation was automated by Stata and in this sense was blind;
- Schools were sorted by blocking variable and, within each block, by the random number;
- The first school was randomised to treatment or control;
- Each subsequent school was assigned to the opposite outcome of the previous school.

**Number randomised to each arm**

As mentioned above, 70 schools were randomised to the treatment group and 70 to the control group.

**Timing of randomisation relative to baseline testing**

Randomisation was implemented ahead of the two-year development programme; no base line data collected other than GCSE results from the pre-intervention period, eligibility for free school meals and KS2 scores, from an NPD Tier 2 request; see below.

**Calculation of sample size**

In line with the standard approach in the Randomised Control Trial literature, the sample size was chosen in line with an expected effect size. Since outcome variables – i.e. the GCSE Capped 8 attainment score and attainment in English and Mathematics as individual variables – have different distributions, the sample was chosen in relation to an effect size of a Standardized Mean Difference (of 0.20 standard deviations) which equates to an improvement of approximately one third of a GCSE grade which was considered by the SSAT and EEF advisory panels to be an acceptable level of improvement from a policy perspective to roll the intervention out more widely.

The advised sample sizes were based on an expectation that 120 schools would be allocated randomly: 60 into the treatment group and 60 into the control group, with an average of 100 students participating in each school. The total expected sample size was therefore 12,000 students (100 students per cluster for 0.05 significance level, 0.8 power, 0.20 intra-cluster correlation\(^5\), The calculation is no longer available because the data set used for the sample size calculation has been deleted in line with the NPD data sharing protocol. As mentioned above, 140 schools were recruited for the trial.

**Follow-up**

The below CONSORT 2010 chart outlines what is known to date about follow up.

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5 Intra-cluster correlation coefficients, EEF, 2015
Outcome measures

**Primary outcome**

The primary outcome will be a student’s GCSE Attainment 8 score. This uses the new GCSE numerical grades introduced in 2016/17 which ranges between 0 and 9, using the NPD variable KS4_ATT8.

**Secondary outcomes**

Two secondary outcome measures will be individual’s numerical grade for Maths and English using NPD variables KS4_APMAT_PTQ_EE and KS4_APENG_PTQ_EE which again range between 0 and 9.

**Baseline imbalances**

This was assessed using the NPD data received in December 2015 (see table 1), including 11,000 students in the 140 schools in the study, based on the proportion eligible for FSM and grand means for Key Stage 2 results (achieved in 2011/12 i.e. the cohort who will sit KS4 exams in 2016/17). This was based on the NPD variables EVERFSM_6 and KS4_VAP2TAAPS_PTQ_EE respectively. The previous lead analysts concluded that there were no baseline imbalances but the data has now been deleted so...

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the effect size cannot be reported in the SAP. However effect sizes will be reported for both variables in the final report.

Analysis

Primary intention-to-treat (ITT) analysis

The two types of schools included in the trial are:

a) intervention schools that deliver EFA
b) control schools

The estimated impact will be based on the difference in KS4 scores between a) and b) for all schools where data is available, regardless of drop out, but only those schools and pupils who consented to be included. This is in order to estimate the "intention to treat" (ITT) effect. Analysis will be conducted in Stata.

In line with the latest EEF guidance, two models will be fitted:

- 'Simplest model': including prior attainment and allocation dummy as fixed covariates, and school as a random effect.
- 'Precise model': including prior attainment, the allocation dummy and indicator variables specifying membership of the randomisation blocks (all fixed effects) and schools as a random effect

Grand and group means will also be reported as exploratory data analysis and the impact of KS2 scores will be reported as an effect size. In the analysis below, KS4 score will be standardised using the approach outlined under effect size on page 14. The centring will be around the (treatment) group means but not around individual school means because we are interested in the intercept for the treatment but not the separate intercepts for the schools.

Model equation:

\[ y = X\beta + Z\mu + \epsilon \]

Where:

\[ y = \text{vector of outcome scores } \text{[KS4]} \]

\[ X = \text{covariate matrix } \text{[KS2 scores in 'simplest' model and this plus dummies for stratification groups in the 'precise' model]} \]

\[ Z = \text{design matrix identifying which school (or cluster) an individual attended.} \]

\[ \mu = \text{vector of school random effects} \]

\[ \beta, = \text{fixed effect parameters} \]

\[ \epsilon_{ij} = \text{residual error term for j-th member of cluster (school) i} \]

with the covariance structure given by \( \Sigma \), where:

\[ \Sigma = (\sigma^2_a + \sigma^2_e) \begin{bmatrix} I & \cdots & 0 \\ \vdots & \ddots & \vdots \\ 0 & \cdots & I \end{bmatrix} \]
Where $\sigma_a^2$ is a measure of school level variation; $\sigma_e^2$ is a measure of student level variation and $I$ is given by:

$$I = \begin{bmatrix}
1 & \rho & \cdots & \rho \\
\rho & 1 & \ddots & \vdots \\
\vdots & \ddots & \ddots & \rho \\
\rho & \cdots & \rho & 1
\end{bmatrix}$$

And $\rho$ is the intra-school correlation coefficient:

$$\rho = \frac{\sigma_a^2}{\sigma_a^2 + \sigma_e^2}$$

The fixed effect parameters and variance components will then be estimated by restricted maximum likelihood estimation using the STATA command:

```
mixed KS4 KS2 TREAT i.[Tertile of school average KS2 in 2014] i.[Tertile of proportion of cohort eligible for FSM] || SCHOOL: reml - for the precise model and:
mixed KS4 KS2 TREAT || SCHOOL: reml - for the simplest model
```

Key model outputs will be a point estimate for the coefficient of the bivariate treatment variable [TREAT] and a 95% confidence interval for this estimate (standard Stata outputs).

If the effect size associated with the point estimate of TREAT is found to be significantly different from zero and exceeds 0.2 (the equivalent of half a GCSE grade as outlined in the sample size section above) the intervention will be considered to have been fully successful. If the effect size associated with the point estimate of TREAT is found to be significantly different from zero and of between 0.1 and 0.2, the intervention will be considered as a partial success. As readers will be provided with a standard 95% confidence (based on co-efficient standard errors) interval and goodness of fit estimates (standard Stata outputs) they will be able to make their own interpretation about the weight of evidence for or against the intervention if findings are other than the two situations specified.

**Interim analyses**

No interim analysis was undertaken

**Imbalance at baseline for analysed groups**

School and pupil characteristics and measures of prior attainment will be summarised descriptively by randomised group both as randomised and as analysed in the primary analysis (for identified pupils). Continuous measures will be reported as a mean, standard deviation (SD), minimum and maximum, while categorical data will be reported as a count and percentage.

**Missing data**

We will describe and summarise the extent of missing data in the primary and secondary outcomes, and in the model associated with the analysis incorporating the fidelity data collected by SSAT (see below) (and also for all control variables), Reasons for missing data will also be described. For all models we will trigger a full multiple imputation strategy if more than 5% of data in the model is missing. We will also trigger imputation if more than 10% of data for a single variable or a single school is missing. The below approach will be followed separately for each instance of model and outcome for which the threshold is exceeded. The first step will be to assess whether the missing data is missing at random (MAR). We will use the standard approach where we create an indicator variable for each variable in the impact model specifying whether the data is missing or not and use logistic regression to test
whether the missing status can be predicted from the following variables: all variables in the precise model plus school average KS2 and eligibility for FSM (continuous variable as opposed tertiles), gender and ethnicity. Where predictability is confirmed we will proceed with MI. Where the missing-ness cannot be predicted, we will assume the data is either ‘Missing Completely at Random’ (MCAR) or ‘Missing Not at Random’ (MNAR). In the first case we are unable to observe data related to randomness and MI is not feasible. In the second case the only approach would be to adopt a structural modelling approach which we would not adopt because this would deviate from the principles of transparent reporting as findings would be assumption rather than data driven.

For the models which meet the thresholds above and for which the MAR assumption holds we will use all variables in the precise model plus those mentioned above and adopt an MI strategy using a fully conditional specification, implemented using STATA MI to create 20 imputed data sets. We will re-estimate the treatment effect using each dataset and take the average and estimate standard error using Rubin combination rules.

We will base confirmation of the effectiveness of the treatment on complete data points only but assess the sensitivity of the estimate to missing-ness using the imputed estimates.

If the complete data only model confirms effectiveness but the imputed estimate does not we must assume that the missing data is missing not as a random to such an extent as to invalidate our conclusion of effectiveness.
Treatment effects in the presence of non-compliance

For each school involved in the project a lead liaison was employed by SSAT to work with the schools in implementing the intervention. The SSAT employed leads completed a survey on the extent to which there was high fidelity to the planned intervention. Four questions from the survey will be used to create binary indicators of ‘baseline’ and ‘gold standard’ compliance, as outlined in Table 2, for use in the CACE analysis at the school level using the standard formula: \( \alpha_{CL} = \alpha / P_{CL} \)

Where \( \alpha \) is the effect size based on ITT analysis for all schools who responded to the compliance survey and for whom we have NPD data, \( P_{CL} \) is the proportion of these determined to be compliers and \( \alpha_{CL} \) is the effect size for compliers only.

Table 2

<table>
<thead>
<tr>
<th>Binary measure</th>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Q2. TLCs are meeting approximately once per month (mostly every 3-5 weeks) over the course of the year?</td>
<td>51</td>
</tr>
<tr>
<td></td>
<td>Q3. TLC's held are approx. 75 minutes</td>
<td>53</td>
</tr>
<tr>
<td></td>
<td>Q4. The school is on target to complete all 18 TLC's over the two years</td>
<td>51</td>
</tr>
<tr>
<td>Baseline</td>
<td>Answered Yes to Q2, Q3 and Q4</td>
<td>48</td>
</tr>
<tr>
<td>Gold Standard</td>
<td>Q8. The school has fully committed to the project providing wrap around support, compliant if answer is 3 “Staff are supported beyond TLC meetings, with support/time to complete peer observations. The project is high profile with staff and students. There is regular input e.g. briefings, newsletters, celebration events etc.” [Other answer options below](^7)</td>
<td>17(^8)</td>
</tr>
</tbody>
</table>

Secondary outcome analyses

Model structure for secondary outcomes will be identical to that for the primary outcome variable above. Secondary outcomes being:

- GCSE English grade (KS4_APENG_PTQ_EE)
- GCSE Maths grade (KS4_APMAT_PTQ_EE)

Additional analyses

Impact of related trials

We will look at the sub-set of schools which did not undertake the related TEEP intervention (identified in the SSAT monitoring data outlined in Table 1) and again compare the parameter estimates with those from the full sample. 11 treated and 3 control schools received TEEP prior to the start of the evaluation. One treated school started TEEP and dropped out of EFA in 15/16 and one... 

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\(^7\) The other options are:

- 0 = No;
- 1 = Minimal Support in place which has not been maintained in over time or infrequent
- 2 = Staff have been given regular support in between meetings for peer observations or regular briefings

\(^8\) 22 on the data currently held by NIESR but revised to 17 after QA by SSAT
control school started TEEP in 16/17. We would expect the parameter estimates of impact to be lower for this sub-group analysis because exposure to TEEP is un-balanced (greater in the treatment group) and evidence\textsuperscript{9} on formative assessment suggests a long lead time between embedding FA techniques and them realising their full benefits.

Subgroup analyses

Estimates will look into differential effects of three subgroups – based on the appropriate sub-samples of the data rather than additional variables, defined by student characteristics:

- Students who have ever received free school meals [NPD variable EVERFSM_6];
- Student with low attainment scores in Key Stage 2 attainment tests (bottom third as used for the randomisation) [NPD variable KS4_VAP2TAAPS];
- Student with high attainment scores in Key Stage 2 attainment tests (top third as used for the randomisation) [NPD variable KS4_VAP2TAAPS].

In addition, we will undertake two separate subgroup analyses incorporating the measures of compliance described in the non-compliance with intervention section above.

\textsuperscript{9} The schools, students and teacher's Network, and Whole School Embedding Formative Assessment Resource: https://www.ssatuk.co.uk/cpd/teaching-and-learning/embedding-formative-assessment/
Effect size calculation

In line with EEF best practice guidance, irrespective of whether the difference between treatment and control groups is significant, the key output will be the effect size based on the model estimate of the difference between groups divided by the pooled standard deviation (Hedges g):

\[
\frac{\hat{\beta}_d}{\sqrt{\hat{\sigma}_e^2 + \hat{\sigma}_a^2}}
\]

Where:

\(\hat{\beta}_d\) is the model estimate of the difference between groups, and

\(\hat{\sigma}_e^2\) and \(\hat{\sigma}_a^2\) are the estimated error components for individuals and classes,

All taken from the standard Stata outputs.

List of variables included in the NPD request

A Tier 2 NPD request of approximately 11,100 student records from 140 schools to cover all KS4 leavers of the schools included in the trial (following opt-out) for the 2015/16 and 2016/17 academic years. All variables KS4 Tier 4 variables need to be included. Matched at individual level to prior attainment in Key Stage 2 (2010/11 and 2011/12) and further variables from School Census for 2015/16 and 2016/17. Table 3 on the following page provides a summary of the main variables used in the analysis.
### Table 3: List of main variables used in the analysis:

<table>
<thead>
<tr>
<th>NPD Alias</th>
<th>Description</th>
<th>Values</th>
<th>Tier of Variable</th>
<th>Use in analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td>KS4_ATT8</td>
<td>Capped GCSE and equivalents new style point score.</td>
<td></td>
<td>4</td>
<td>Primary outcome</td>
</tr>
<tr>
<td>KS4_APENG_PTQ_EE</td>
<td>English attainment point Score.</td>
<td>0, 15, 21, 27, 33, 39, 45, 51</td>
<td>4</td>
<td>Secondary outcome/pre-programme and control</td>
</tr>
<tr>
<td>KS4_APMAT_PTQ_EE</td>
<td>Maths attainment point Score.</td>
<td>0, 15, 21, 27, 33, 39, 45, 51</td>
<td>4</td>
<td>Secondary outcome/pre-programme and control</td>
</tr>
<tr>
<td>EVERFSM_6</td>
<td>The student has either been eligible for free school meals at some point in the last 6 years</td>
<td>1 = True</td>
<td>0 = False</td>
<td>2</td>
</tr>
<tr>
<td>-----------</td>
<td>-------------------------------------------------------------------------------------</td>
<td>---------</td>
<td>---------</td>
<td>---</td>
</tr>
</tbody>
</table>
Report tables

We will follow the EEF trial report template\(^{10}\) when reporting the findings from this study.

\(^{10}\) https://educationendowmentfoundation.org.uk/evaluation/resources-centre/writing-a-research-report/