CENTURY

CENTURY for FE Maths

Introduction

The beauty of CENTURY is that it is powered by students. If your students are using it, they are learning. If your students are learning, they are producing insightful data for you and your team to analyse and act upon. The only thing you need to do is to ensure the relevant maths courses have been assigned to your classes.

The following document has been created to assist you when you are ready to take more control of the platform and to guide you on how to embed CENTURY into your department.

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Schemes of work

Setting Diagnostics (using the Planner)
If you would like students to sit both diagnostics (calculator and non-calculator) in one sitting, then you can set these through the Planner. This means that you will have a clear understanding of where your students' gaps in knowledge lie and can adapt your schemes of work accordingly.
This document gives the question level breakdown of each diagnostic.

Setting Nuggets (using the Planner)
Another way to ensure students are recommended nuggets on CENTURY which are relevant to their classwork is by setting individual nuggets. All of CENTURY's learning material is linked to pre-requisites and nuggets to extend their learning. When setting nuggets to align to a scheme of work we suggest setting no more than three nuggets at a time. This is because they take priority in the path. By setting no more than three nuggets, students can still access nuggets set by the recommendation engine.

For example, if students are set the nugget *Algebraic Fractions 1: Simplify [MH54.01]*, any mistakes will be recognised by the system. Students will then be recommended nuggets based on their gaps in knowledge, such as *Factorising 2 [MF18.08]*, *Multiplying Fractions 2 [MF4.24]*. Additionally, if a student completes a nugget and shows they have a good understanding, they will be recommended more complex nuggets within that topic to provide stretch and challenge.
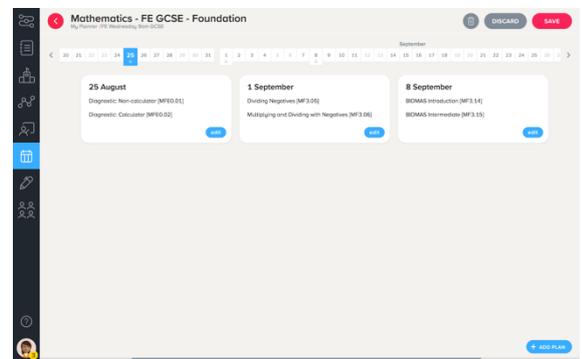
Department-wide Consistency (using the Planner)
By appointing a CENTURY champion in your Mathematics department, you can ensure consistency throughout each year group. Using diagnostics and/or nuggets to map out the curriculum, these plans can then be imported by other teachers to their classes. This saves teacher time and ensures all students will be recommended CENTURY content related to your scheme of work.

Making the most of data

Class Admin to see Cohort Data
As well as seeing the results of an individual class, you may view the data for a particular cohort. Using Class Admin, it is possible to assign a course to an entire cohort of students and then use the Teacher Dashboard to see results across the year. Make sure these groups are based on the courses students are studying.

Once students are in the appropriate course class, you may decide to use the Nugget tab within the Teacher Dashboard to see a question level analysis of each diagnostic or nugget. This information will inform any adaptations to schemes of work according to the prior knowledge of each year group.
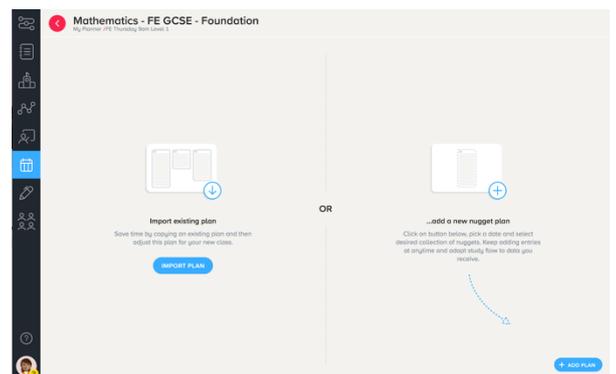
Using Diagnostics to evidence progress
Diagnostics can be used at the beginning of a topic within a scheme of work to highlight to heads of departments/teachers any gaps in knowledge within the group.
This data can be exported to an Excel spreadsheet and used as a 'pre-test'. CENTURY will only set each diagnostic once to find gaps in knowledge, however the teacher has the ability to reset the diagnostic using the Planner.
Setting this diagnostic at the end of the topic acts as a 'post-test' and can again be exported from the Markbook to evidence progress.
Note: When exporting data from the 'post-test', it is important to use the time stamp on the markbook to ensure the data collected is from the students' second attempt.

Interventions

Intervention Groups
Using Class Admin, intervention teachers or learning support assistants can create classes for intervention groups to analyse data and evidence progress using the Markbook.
Note: It is important to create intervention classes based on the course students are assigned. Also make sure to assign the relevant course to the class in order to view the data.

Flipped Learning
Setting nuggets for flipped learning allows teachers to focus on the most important areas of improvement for their class. Being able to gain an understanding of students' levels of knowledge of coordinates by setting a CENTURY nugget in advance will enable teachers to plan a tailored lesson on graphs without wasting valuable lesson time checking prior knowledge.

Assessment for Learning
Using nuggets for AfL tasks in class provides students with immediate feedback and teachers with instant data on their progress. These data insights enable targeted interventions, whilst the data dashboard highlights the precise areas students need help with.
CENTURY's recommendation engine will set completely personalised homework for each student and track their engagement and performance through the Teacher Dashboard.

CENTURY Mathematics Courses

When you subscribe to CENTURY, you have access to all our courses, which are listed below. Any new maths courses published in the future will also be automatically added to your accounts.

Primary Courses

Course	Appropriate for	Notes
Primary Mathematics - Year 3	Year 3 in line with National Curriculum	Contains pre-requisite nuggets from Year 2
Primary Mathematics - Year 4	Year 4 in line with National Curriculum	Contains pre-requisite nuggets from Year 3
Primary Mathematics - Year 5	Year 5 in line with National Curriculum	Contains pre-requisite nuggets from Year 4
Primary Mathematics - Year 6	Year 6 in line with National Curriculum	Contains pre-requisite nuggets from Year 5
Primary Mathematics - Arithmetic	Year 6 KS3 Students with low arithmetic skills.	Arithmetic Practice
Primary Mathematics - Multiplication Tables	Year 6 KS3 Students with low times tables knowledge.	Multiplication Tables Practice

Secondary Courses

Course	Exam Board	Appropriate for	Notes
Secondary - Foundation	All	KS3 Students and KS4 students sitting the Foundation GCSE paper	Subset of Higher course. Foundation data will move with the student if moved to the Higher course.
Secondary - Higher	All	Any student expected to sit the Higher GCSE paper.	Course contains the full Foundation course. Foundation data will move with the student if moved to the Higher course.
Bridge to A-level	All	Students who are working at a level 7-9 and need to be challenged. Essential grounding for students moving onto A-Level maths.	Covers key basic content of A-Level maths course at GCSE level, includes some content beyond the GCSE syllabus (e.g. differentiation).
FE GCSE - Foundation	All		Adapted from Secondary - Foundation course. Calculator & non-calculator diagnostics

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Functional Skills Courses

Course	Exam Board	Notes
Functional Skills - Entry Level 1	C&G, AQA, Edexcel, OCR (soon redundant)	May be helpful in terms of terminology for EAL students.
Functional Skills - Entry Level 2	C&G, AQA, Edexcel, OCR (soon redundant)	
Functional Skills - Entry Level 3	C&G, AQA, Edexcel, OCR (soon redundant)	
Functional Skills - Level 1	C&G, AQA, Edexcel, OCR (soon redundant)	
Functional Skills - Level 2	C&G, AQA, Edexcel, OCR (soon redundant)	

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Tips for maximising use of CENTURY

Fast track your students
Setting individual nuggets through the Planner that are aligned to your scheme of work enables CENTURY to make recommendations linked to the precise nuggets you choose. CENTURY will react to fill any gaps in prerequisite knowledge, and stretch learners that already have a good understanding.
Departments using this approach should aim to set around 3 nuggets per week as a maximum.

Data Insights for entire cohorts *
Using Class Admin to create a course class enables data insights across the year group and allows work to be set en masse for an entire cohort of learners. Using the tools in the Teacher Dashboard can provide detailed insights into engagement, attainment and specific areas of strength and weakness for an entire cohort.

Evidencing progress †
Student data can be time stamped and exported to Excel from the Teacher Dashboard Markbook. Setting diagnostics as an initial assessment and then as progress checks throughout the year can help highlight the progress students have made.

Interventions ‡
Using class admin to create intervention groups equips teachers with all the tools to focus on key cohorts of learners of any size.

Using CENTURY for interventions
- Setting nuggets for flipped learning allows teachers to focus on the most important areas that they need to teach their class.
- Using nuggets for AfL tasks in class provides students with immediate feedback and teachers with instant data.
- CENTURY's recommendation engine will set completely personalised homework for each student and track their engagement and performance through the Teacher Dashboard.

The data insights generated through the dashboard enable targeted intervention, highlighting the precise areas students need help with.

* Create classes based on the course students are assigned. E.g. foundation tier learners in a foundation tier class, higher tier learners in a higher tier class.
† The Markbook shows the students' most recent attempts. See attempts at any point in time by time stamping the markbook.
‡ Create intervention groups based on the course students are assigned.