Preparing data | **Assessment and project plan** | 2 weeks

This module includes **three summative assessments**.

We'll complete an **integrated project over the course** of the module. In this project, we **investigate access to safe and affordable drinking water**. You will need to **create features**, **summaries**, and **visualisations** per the instructions to complete the **two compulsory MCQ assessments** related to the project.

The **datasets** you'll need to complete the integrated project and compulsory MCQs can be downloaded from the **Download Additional Files** button on the integrated project **slides** on Athena.

You will also need to complete an assessment based on the **concepts you've learned throughout the module**. This test will assess your **ability to interpret data and insights**.

Week	Context	Learning outcomes
1	**Integrated project: Access to drinking water (Part 1 – Understanding the data) [MCQ]**	
	Integrated project: Understanding the data [Slides] **Number of questions**: 10 Revise the following week one Preparing data lessons: • Data sources and access • An introduction to using data • Data aggregations and descriptive statistics • An introduction to data visualisation lessons	Demonstrate an understanding of importing and using data in Google Sheets. Demonstrate the ability to use formulas and charts in Google Sheets. Demonstrate the ability to calculate and interpret summary statistics. Demonstrate the ability to interpret data, summary statistics, and data visualisation.

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Week	Context	Learning outcomes	Context	Learning outcomes
2	**Integrated project: Access to drinking water (Part 2 – Transforming the data) [MCQ]**		**Preparing data [MCQ]**	
	Integrated project: Transforming the data [Slides] **Number of questions**: 10 Revise the content of week one of Preparing data, including the following lessons of week two: ● Data formatting ● Data cleaning ● Samples and distributions ● Spreadsheet functions	Demonstrate an understanding of importing and using data in Google Sheets. Demonstrate the ability to use formulas and charts in Google Sheets. Demonstrate the ability to interpret data, summary statistics, and data visualisation. Demonstrate the ability to use spreadsheet functions to transform and clean data.	Test your knowledge of the line of best fit, the line of best fit equation, and drawing and testing assumptions. The **context** of the assessment will be **provided in each question**. **Number of questions**: 10 Revise all content of Preparing data, including the lessons of week three: ● Identifying patterns ● Accuracy ● Drawing and testing assumptions	Demonstrate an understanding of trends and relationships in data and interpreting and evaluating model performance. Demonstrate an understanding of hypothesis testing.