

 **Careers in the Curriculum**

**Maths Level 1 using calculations:**

 **Multiplication and division of whole numbers**

 **Lesson Plan**

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| **Trainee:** | **Lesson theme / focus: multiplication & Division (food for the animals)**  | **Date:**  |
| **Course: module / unit / level: Ascentis Steppingstones maths Level 1.****Module: Using Calculations: Multiplication and Division of Whole Numbers** | **Location:** | **Time:** |

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| **Overall lesson aim:**  |
| **Learning Objectives** By the end of the lesson all students can .......* Explore the way maths can be used within the role of staff at the Safari Park.
* Use multiplication to find an amount of food to feed the animals and access to the park for visitors.
* Divide an amount of food for the animals using a calculator and demonstrating dealing with remainders.
* Use division to interpret Meerkats behaviour.
* Students learn more about job roles in the visitor economy.
 | Course Learning outcomes to be covered from Steppingstones module: Using Calculations: Multiplication and Division of Whole Numbers1.2 Multiply whole numbers by numbers up to 4digits using a calculator.2.2. Divide whole numbers by numbers up to 4 digits.using a calculator and interpret remainders.2.4 Select and use correct operation for the contextusing a calculatorOther Learning Outcomes* Students to have an awareness of maths being used in the workplace.

How will you know students are making progress in their learning?Students will answer questions and complete worksheets. I will use exit questions at the end of the session also. |
| **Equipment, resources & organisation for this lesson**SMART Board. Pens, paper, folders, worksheets, access to internet VIDEO USED: [Let’s Explore… Visitor Economy](https://vimeo.com/834706756?share=copy) password: Explore. <https://vimeo.com/834706756>  If resolution is not clear, go to settings on Vimeo and change to view in a lower resolution under quality, 2k is usually best. The video is 4D so you are able to Scroll around the screen to see different angles.  |
| **Inclusion and differentiation:** Stretch & Challenge: Some students will work more independently than others and will be encouraged to attempt to answer questions before additional support with prompts and reading is given. Students will share answers with their peers using the interactive white board. | **Support / Issues:**  |
| **Lesson content and activities** | **How will you monitor & assess learning?****Key questions** Include questions which will challenge students of all abilities to make progress in the lesson |
| **Introduction:**Introduce the context for the lesson and explain learning objectives.Starter quiz: Name different vocabulary used for multiplication and division share answers with the class.  | Assess students answers to naming different vocabulary for operations. |
| **Task 1** Explain we are going to watch videos about the role of a zookeeper at Knowsley safari park. discuss with students. Key questions: Would you think maths would be that important to a zookeeper and other jobs at the safari park?Can you make a list of jobs at the safari park? Would all jobs at the safari park use maths?Students to make notes of answers on discussion A3 sheet. Video: Introduce the team at Knowsley and explain their jobs. Class to discuss their reactions to the video and check if they think any of their answers were correct.  | Assess previous knowledge of maths in the world of work at the safari park. |
| **Task 2** Explain we are going to look at Maths in the Admissions office.Video:Replay the Video of the admissions office and press pause before they move to the next area of the park. Students to complete Worksheet 1: Admission’s office. Access to the internet is needed even if just on the teacher’s board. Students to Access Knowsley safari park website.  | Written tasks assess student’s knowledge of using multiplication and division through direct questioning throughout. Answers given at the end.  |
| **Task 3** Video: Replay the video for students to watch the Meerkats. Students to complete Worksheet 2: Meerkats | Written task assess student’s knowledge of using multiplication and division through direct questioning throughout. Answers given at the end.  |
| **Task 4** Video: Replay the video for the students to watch the research and conservation team.Students to complete Worksheet 3: Conservation and research | Written tasks assess student’s knowledge of using multiplication and division through direct questioning throughout. Answers given at the end.  |
| **Task 5** Video: Replay the video of the Oasis restaurant.Students to complete Worksheet 4: Catering and hospitality. There is a task associated to this where students design a menu for students with a set budget. Extension activity: Draw and make a poster of the lunch your classmates will receive at Knowsley safari park. | Written tasks assess student’s knowledge of using multiplication and division through direct questioning throughout. Answers given at the end.  |