

# ON A BUDGET

## • CALCULATING •



**CURRICULUM AREA:** MATHEMATICS

**TARGET YEAR LEVEL/S:** Years 5 – 7

**CLASS TIME:** 60 minutes

### LESSON BACKGROUND

A problem solving activity that relates to the budgeting preparations that Chris & Clark carried out prior to their expedition. Students will be required to use a specified amount of money to purchase essentials from a pre-created list to use on the expedition. Students will understand that their budget is not 'limitless', and they must differentiate between 'essentials' and 'non essentials'.

### OUTCOMES

- Poses mathematical questions prompted by a specific stimulus or familiar context and uses problem-solving strategies that include those based on representing key information in models, diagrams and lists.
- Students choose and use a repertoire of mental, paper and calculator computational strategies for each operations, meeting needed degrees of accuracy and judging the reasonableness of results.

### PREPARATION

- Pre-created list of possible foods/equipment as well as prices that COULD be used on the expedition. (depending on the level of the students, the list should be adjusted to cater for their understanding)
- Maths books or blank paper for working out.
- List of equipment/foods that Chris & Clark purchase prior to their trip.

### STUDENT ACTIVITY

- 1) Discuss with students what they go through when planning for a 'camping' trip. Allude this to C&C's expedition, and shopping for foods and equipment.
- 2) Hand students your created list of foods/equipment and prices. Ask students to consider what are the things on the list that they feel C&C MUST take on their expedition? What are the things that they might see as non-essentials?
- 3) Discuss the idea of a 'budget'. Tell students that they are to pretend that they will be heading on the 1000hourday expedition, and they must purchase the needs and wants for that expedition given your own specified budget (make sure that the budget you specify is reflective of the prices of the things you have put on the list). Students MUST make sure that they include in their budget what they believe to be the ESSENTIALS of the trip, as their goal is to get as close to the target budget without going over, as well as getting as close to C&C's list of equipment as possible.
- 4) Once a student claims to be finished (or as a class) compare their list with what C&C took.

How close did they come? Did they include the essentials? What did they choose as their 'wants'?

## **EXTENSION**

- The task can be modified in a variety of different ways to cater for a range of levels. Examples including adding the extra dimensions of 'quantity' and 'mass' of equipment, and what C&C will allow for in terms of those.
- Students can examine the list of C&C'S ACTUAL equipment & food and calculate what they must of spent, and estimate what their budget must have been.



## Preliminary Budget Summary for 2008 Expedition

<b>General Expedition Equipment</b>	<b>Qty</b>	<b>Cost</b>	<b>Total</b>
PAC	2		
Self Inflating Sleeping Mat	2		
Repairs & Tools	1		
Foot & electric Pump for tyre	2		
Storm/Cold Proof Lighter	2		
Single Bladed Paddles	2		
Tent	1		
<b>Food &amp; Cooking</b>			
Breakfast/Lunch/Dinner/Snacks	100		
MSR XGK EX Stove & Service Kit	2		
MSR 1L Fuel Bottles + Fuel	16		
MSR Duralite TM Classic Cookset	1		
Camel Back 2L	2		
<b>Safety</b>			
Shotgun & Bear Ammunition	1		
Pen Flare & Bear Spray	2		
First Aid Kit	1		
Perimeter Polar Bear Alarm	1		
<b>Film/Photo/Technology/Nav</b>			
Micro Latop/PDA w/Keyboard	2		
Small HD Cam & Tapes	2		
Small Waterproof Camera	2		
SLR Camera	1		
Lipstick Camera	2		
GPS & Maps	2		
Pelican Case	2		
Tripod	1		
4Gig Flash/Memory Cards	4		
iPod	2		
<b>Logistics</b>			
Syd -> Van (return)	2		
Van -> C. Bay (return)	2		
C. Bay -> Start	1		
Finish -> C. Bay	1		
Delivery Food to C. Bay	1		
Excess baggage (PAC etc)	1		
<b>Other Expenses</b>			
Web Master Costs	1		
Logo's/Stickers	1		
PAC R&D	1		
Time related expenses	1		
Insurance	1		
Accommodation and Living en-route	1		
Sat Phone Bills	1		
First-Aid Courses (Senior & Remote)	1		