Let's Get Packing!

Grade Level: 3rd Grade

Topic: Social Studies, Math

Resources Needed:

- UVM CDI Long Trail Images:
  - "At the Base of Mount Ellen: 4 a.m. Start"
    http://cdi.uvm.edu/collections/item/deanb01075
  - Montclair Glen Lodge
    http://cdi.uvm.edu/collections/item/deanb01011
  - Cooley Lodge Interior
    http://cdi.uvm.edu/collections/item/hwccr03b03081

- Math worksheets (see below)

Student Learning Objectives:

- Students will understand the nature of packing for a long-distance hike such as the Long Trail.
- Students will find a sum of 30 using their own strategy.

Assessment of Stated Objectives:

Students will be assessed based on their participation during the discussion of the images as well as their results with the math worksheet.

	3	2	1
Discussion	Student shared their ideas in an appropriate and respectful manner. They were able to identify what to pack and what they would need to give up for the sake of lighter pack weight.	Student shared ideas and/or was respectful when listening to their peers. They were able to identify the things needed for a long hike.	Student was unwilling to participate when asked. Student was not able to identify what would be needed for an extended hike.
Worksheet	Student completed the worksheet. Student was able to independently total a sum of 30.	Student completed parts of the worksheet. Student needed some help totaling a sum of 30.	Student did not complete the worksheet. Student was not able to total a sum of 30.

Differentiation:

- For struggling students: Students can still work on the worksheet but will not have a weight limit. They can explain why they chose what they did.

- For advanced students: Students can create a list that would allow them to travel for 2 weeks.

Standards:

USA – Common Core State Standards
    Subject: Mathematics
        Grade: 2nd & 3rd
            Domain: Operations and Algebraic Thinking
            Standard: 2.0 (a) Represent and solve problems involving addition and subtraction. 1. Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.

Vermont Framework of Standards for History and the Social Sciences
    Geography: Place on Earth
        6.8 Movements and Settlements*:*
            Students analyze the factors and implications associated with the historical and contemporary movements and settlements of people.

Procedures:

a. Students are shown the images from the UVM Center for Digital Initiatives Long Trail Project. Students are asked what they see, what they think hikers packed, and how those packed items were used along the way, etc.

b. A discussion follows regarding how hikers have to pack strategically when they are getting ready for a long-distance hike. Hikers must be careful about adding weight to their packs and must choose to leave behind some items.

c. Students work with the "Let's Get Packing" worksheet. Students read through directions and are encouraged to think strategically (just like the hikers) about what they think is important to take on a hike. The instructor models his or her own list to get students started.

d. After ample time for students to make their list, students share with a partner what they packed and why they chose what they did. A few students can share their lists with the whole class.   Ask students why they chose the items they did.

Time Allotment: 1 class period of 50 minutes per class

Lesson plan created by Hannah Trieb 5/5/2014 as part of the University of Vermont Education Class: EDEL 157 – Social Education and Social Studies

WORKSHEET ATTACHED BELOW

Let's Get Packing

Directions: You and your friend are hiking a part of the Long Trail. You will be hiking for <u>three days</u>. Attached is a list of the possible items you may pack. Below is a table for you to choose the items to pack in your backpack. The maximum weight you can carry is **30 lbs.** You can pack a higher quantity of certain items if you wish, however, remember to multiply the weight by the quantity! (For example, if you want to pack two blankets that each weigh 1 lb., your total becomes 2 lbs.). Write your total at the bottom.

Example:

Item	Quantity	Total Weight
Sleeping Bag (4 lbs.)	1	4 lbs.
Blanket (1 lb.)	2	2 lbs.
Total	**3**	**6 lbs.**

Item	Quantity	Total Weight

Total		

Work Space:

Item	Weight
Sleeping bag	4 lbs.
A day's worth of food	2 lbs.
Large box of matches	.5 lb.
Sleeping pad	2 lbs.
Water bottle	.5 lbs.
A day's change of clothes	1.5 lbs.
Personal hygiene kit: toothbrush, floss, shampoo, etc.	2 lbs.
Quart-sized water bottle	.5 lb.
Warm Clothes: jacket, hat, mittens	3 lbs.
Toilet Paper (3 rolls)	.5 lb.
Journal and pen	1 lb.
Battery-operated radio	2 lbs.
Blanket	1 lb.
Utensils for one	.5 lb.
Book	.5 lb.
Salt and Pepper	.5 lb.
Set of walkie talkies	1.5 lb.
Cooking set	4 lbs.
Additional snacks	1 lb.
Water purifier	1 lb.
Batteries	1 lb.
Raincoat	1 lb.
Change of shoes	1 lb.
First-aid kit	2 lbs.