



Cooperating Associations

Education Plan

Overview: Cooperating Associations operate the bookstores in National Parks. These cooperating associations donate part of the proceeds from book and souvenir sales to the parks. The parks use the donations for activities, programs and publications to aid and promote the historical, scientific and conservation activities of the National Park Service. The goal of this program is to have students analyze problems and perform basic addition and subtraction as well as figure percentages.

Grades: 3rd- 8th

Time: 30- 45 minutes

Learning Objectives

- The student will explain the relationship between Cooperating Associations and National Parks.
- The student will solve math problems related to Cooperating Association job descriptions.
- The student will construct a budget and explain priorities in spending

Educational Standards

From the South Carolina Curriculum and Standards available online at

<http://ed.sc.gov/agency/offices/cso/standards/ela/> &
<http://ed.sc.gov/agency/offices/cso/standards/math/>

Language Arts:

Grade 3 - IV-A, B

Grade 4 - IV-A, B, H

Grade 5 - IV-A, G

Grade 6 -IV- A, C, E, F, I

Grade 7 - IV-A, C F J

Grade 8 -IV-A, B, E, H

Math:

Grade 3 - II-A, B, D, E, F

Grade 4 - I-A, II-A, C, D, E F; VI-A

Grade 5 - I-A, D; II-A, B, C, D, E

Grade 6 - I-A; II-A, B, C, E, F; IV-E

Grade 7 - I-A, B, C; II-A, C E F, J

Grade 8 - I-A, C; II-C, F, J

Materials

- Paper -Pencils -Scrap paper or calculators for math
- Price list and questions

Preparation for Activity

- Gather all necessary materials for this activity -Schedule visit to park site.

Directions:

PRE-SITE ACTIVITIES

Have the students work the following math problems using the prices provided.

Plastic Soldier \$2.95	Bayberry Soap \$1.50	Post cards \$0.50
Paper Money \$1.95	Musket ball \$1.00	Playing Cards \$6.95
Naval Cannon \$4.95	Powdered Ink \$2.75	Quill Pen \$2.95
<i>Civil War Activity Book</i> \$3.95	Harmonica \$12.95	Stuffed Bison \$9.95

1. If Noel has \$10.00, will she be able to buy a Harmonica, powdered ink, and a quill pen? If not, which item should she put back? How much money will he have left over if she puts back that item? Don't forget to add 8.5% sales tax.
2. Jackson wants to buy both a plastic soldier and the playing card. The sales tax is 8.5%. What will his total be?
3. Rebecca has \$5.00. she has chosen a musket ball, paper money, and three post cards. The tax is 8.5%. How much change will he get back? What else could she buy?
4. Luis is buying bayberry soap, a stuffed bison, and a book (*Civil War Activity Book*). How much will his subtotal be? At the rate of 8.5%, how much is the tax? What is the total that he owes?
5. If the Cooperating Association sells \$50,000 worth of items in one year and donates \$2,500 to the park in return, what percentage of the total will the park receive?

ON-SITE ACTIVITIES

1. Choose several bookstore items and have students calculate the total price.
2. The students may wish to purchase bookstore items. Have them calculate the amount of the purchase.

POST-SITE ACTIVITIES

Student Thought Question: The park has put you in charge of spending \$2,500 to aid and promote the historical, scientific and conservation activities of the National Park Service. Write an essay on how you would spend the money.