

## Career Development Occupational Studies

## PART II.2

Eating Fractions	2
Wee Deliver	6

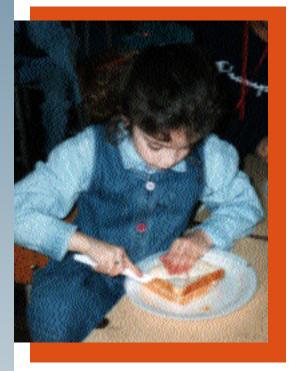
NOTE: This document is a work in progress. Parts II and III, in particular, are in need of further development, and we invite the submission of additional learning experiences and local performance tasks for these sections. Inquiries regarding submission of materials should be directed to: The Career Development & Occupational Studies Resource Guide, Room 681 EBA, New York State Education Department, Albany, NY 12234 (tel. 518-474-5922).



ELEMENTARY

# **Eating Fractio**

# Standards & Performance Indicators

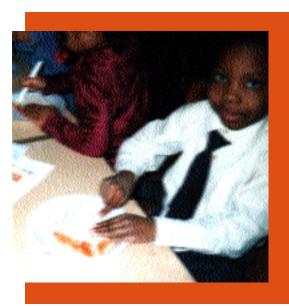


The students will make a sandwich and cut the whole into parts representing fractional equivalents.

he purpose of this lesson is to identify halves, fourths and to informally identify equivalent fractions (2/2 = 4/4 1/2=2/4) and to apply this knowledge in problem solving.



- ▲ solve problems
- ▲ responsible behavior
- attributes needed to complete task
- how technology affects society



Nora Gerwell

School District # 12

C.S. 50X Clara Barton School

1550 Vyse Avenue

Bronx, NY 10460

(718) 542-2650



Grade 1

This lesson is an extension of concepts in the first grade math curriculum. It reinforces and applies knowledge about fractions to a real life situation. These workplace skills are an essential component of the elementary curriculum. The skills are taught using an interdisciplinary approach.

### Students need to know how to:

- 1. Identify figures that are the same size and shape.
- 2. Identify halves and fourths in plane figures.
- 3. Work safely with a knife.
- 4. Read words: halves, fourths, whole. Read 1/2, 2/2, 1/4, 2/4, 3/4, 4/4.

## **ASSESSMENT**

**OBSERVATION** —Are children cutting the sandwich into equal parts? Are children using lesson vocabulary (equal, halves, fourths) as they work? Are children using the materials responsibly, i.e., using the knife to spread the peanut butter and jelly; using the knife to cut the sandwich; keeping the work area clean?



usi	ervation Checklist for Eating Fr		ns accivity	
ame	e	Date ⁄	Comments	<del></del>
•	Demonstrates understanding by cutting sandwich into equal parts (halves or fourths).			

when

## **GROUP DISCUSSIONS AND MOD-**

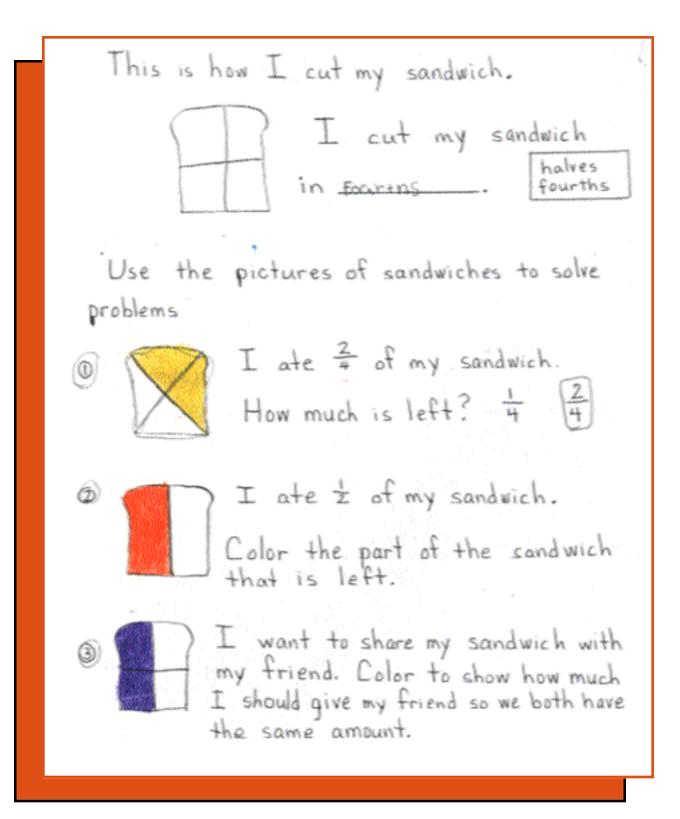
vemonstrates control

using the knife.

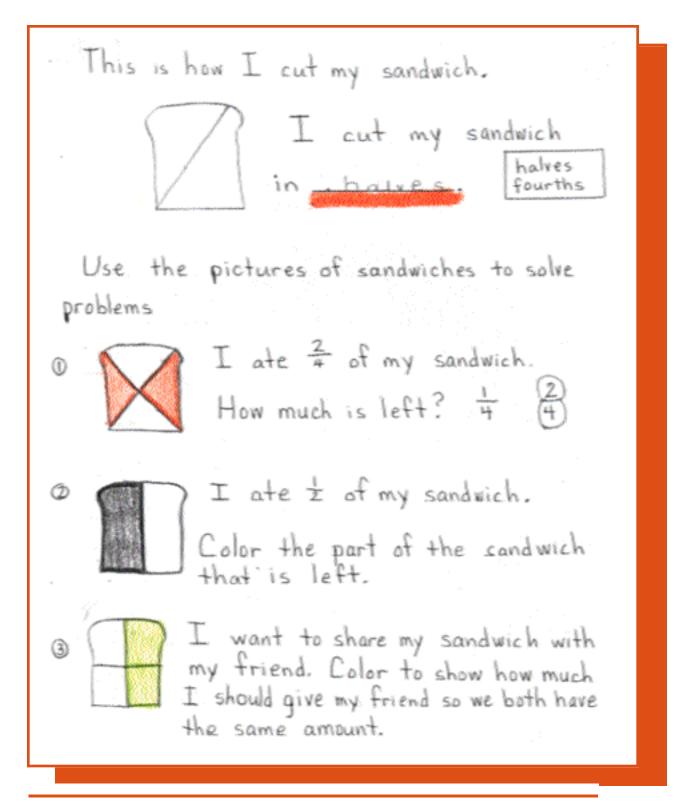
3.

**ELING** — As children discussed how their sandwiches were cut, they demonstrated their awareness that in order for the sandwich to be cut in halves or fourths, the parts must be equal.





**QUESTIONS** — If you cut your sandwich into fourths, hold up one fourth of your sandwich. Show the sandwich on the chart that is cut in fourths. Repeat with halves. How could two children share this sandwich that is cut in fourths? How many fourths would each child get? How many slices of bread would we need to make three sandwiches?



## **REFLECTION**

This lesson addressed differences in learning styles by providing different instructional techniques and methods. Children were able to hear as they were told instructions along with seeing visual cues and then doing the project. Therefore, auditory, visual, and kinesthetic learners had their learning strengths addressed. The activity can be enriched by having students envision that it takes place in a restaurant or other *real* setting in order to understand that fractions are part of activities out of school.

ELEMENTARY

# Wee Deliver

# standards & Performance Indicators

# CDOS

▲ value of work

cdos 2

- ▲ identify knowledge/skills for occupations
- knowledge and ability to use skill
- ▲ solve problems

coos 3a

- ▲ oral/written expression
- ▲ how system operates

Wee Deliver In-School Postal Service Manual US Postal Service's Stamp Out Illiteracy Program 470 L'Enfant Plaza SW Room 4102E Washington, DC 20260-3110

Margaretta Salisbury
Newburgh Enlarged City School

District

DISCITCE

(202) 268-2150

Micro Community Magnet School

at West Street

39 West Street, Newburgh, NY 12550 (914) 563-7777, FAX (914) 563-7795



Grades K-12

### **Materials:**

- postal delivery bags, canceling stamps, and stamp pads materials for making stamps by computer
- label paper, graphics program by hand
- plain paper, "stamp glue" (Knox gelatin and fruit juice) adhesive paper markers, and colored pencils
- stampers with designs, ink pads, and "commemorative" stamps
- children's drawings reduced on copy machine and printed on adhesive paper, or plain paper with stamp glue
- **a** cash box with start-up currency
- record keeping notebook
- graphing paper

postal service, which is part of a larger Micro

Community simulation. It uses handson experience to develop and reinforce academic and work skills.

To succeed in this experience, students need to read and write at a first grade level, do simple math computations, charting and graphing, understand simple street maps and work cooperatively as a group.

Teacher

## The students will:

- develop a map of the school and determine routes
- design and produce stamps using computer, ink stamps, and hand drawings; commission commemorative series for special occasions
- sell stamps, collect and deliver mail, cancel and sort mail
- keep records of mail processed and stamps sold by charts, graphs, and computer
- · count money and keep a business account with the school bank
- visit the local post office or postal distribution center to see how skills they are learning in school are put to use in a postal occupation

## The teacher will:

- introduce lesson on the post office and secure necessary materials and equipment
- guide children through various steps of mail processing, stamp making, and record keeping
- arrange trip to postal facility
- do assessments of student progress



As this is a multi-age group activity for grades K-2, cooperative groups are formed pairing older children with younger ones. Much of this activity is hands-on, involving on-the-job training through demonstration.

Aset of boxes is required for sorting the mail. Also, mailboxes for sending or receiving mail are needed for each classroom and for all staff. Acentrally-located mail drop-off box may be set up as well.

## **ASSESSMENT**

Informal anecdotal notes are recorded by the teacher while observing student performance in each area of the activity. Students show what they know by designing and producing stamps, canceling letters, sorting mail, collecting and delivering mail, keeping records, analyzing data, making graphs, selling stamps and making correct change, making advertisements, and making simple maps. Each activity is rated based on accuracy, legibility and neatness, effectiveness of communication, and creativity.

In addition, the *Skills Checklist for Postal Workers* is used to assess overall performance as a postal worker. Each child enrolled in *Wee Deliver* has an opportunity to demonstrate each of these skills during the 6-8 week activity period.



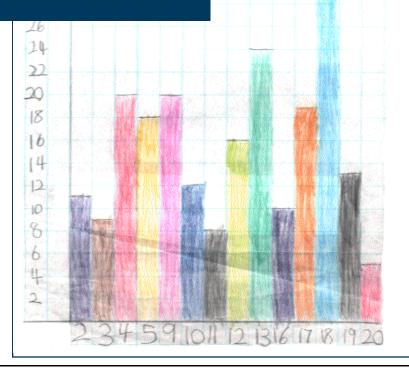
## Micro Community Magnet School at West Street, Newburgh, NY Skills Checklist for Postal Workers

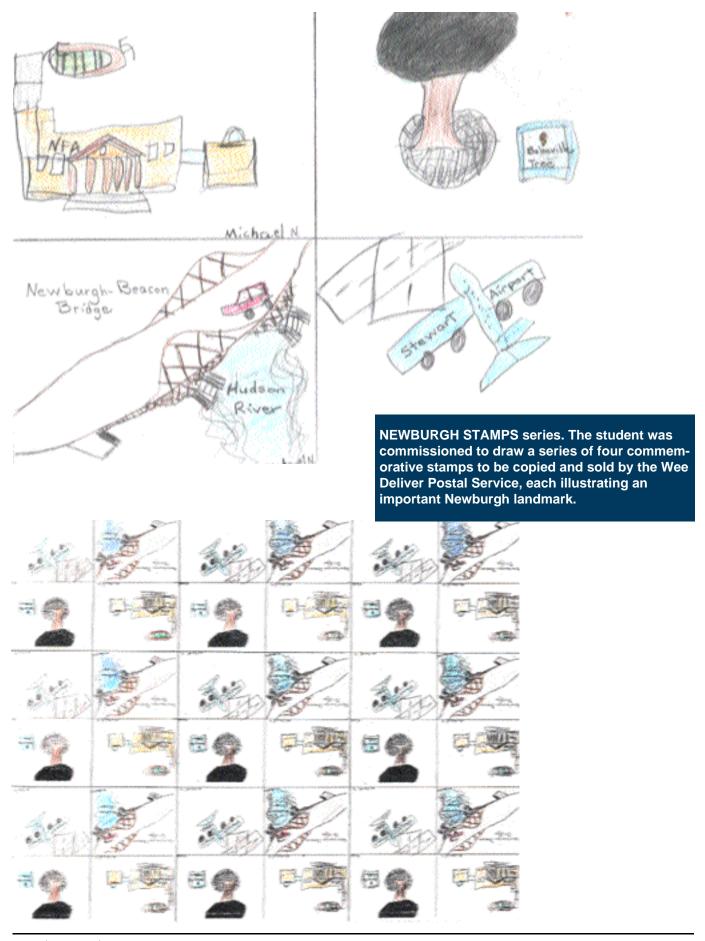
Name of worker: Gra	de: Micro Activity Session
As a Wee Deliver employee, your child has shown accuracy in these academic skills:	As a Wee Deliver employee, your child has effectively demonstrated these work skills:
preparing own letters for mailing	managed time
knowledge of school layout	worked in a team
mapping and organizing routes	taught or served others
sorting in numerical order	set up or changed a system
sorting by street address	listened and spoke well
identifying unprocessable mail	was responsible
making stamps	showed self respect and confidence
making change for stamp sales	managed independently
gathering, recording, charting, graphing	datawas friendly and courteous
Comments:	
Teacher's Signature:	42

36

MAIL PROCESSED IN DECEMBER 1996. The student was asked to record, in chart form, the number of pieces of mail processed by the Wee Deliver Postal Service each work day within a one month period.

LETTERS DELIVERED IN DECEMBER.
The student was asked to create a
graph showing the number of letters
delivered by the Wee Deliver Postal
Service within a one month period, with
volume of mail on the vertical axis and
the delivery days on the horizontal axis.





## **REFLECTION**

This activity could be expanded to include the setting up of postal zones. Delivery of packages could be included, which would require the determining of postage by weight and zone. Special rates could be offered to patrons for bulk mailings or business mail.

Monthly reports could be made to each meeting of the Legislature. Articles could be written for the school newspaper and parent newsletter. Students write and deliver advertising and public relations announcements.

Students could keep their own time sheet for payroll purposes.

Students could keep a "postal worker's journal" reflecting on their work experience each week. Even pre-writers could do this by illustrating their own teacher-recorded text.

Assessment could be improved by developing a more specific rubric of skills appropriate for each grade level, to complement the skills checklist now being used.