

10 Minute Lesson Template

Lesson Title: Berry Expensive or Berry Good Buy?

Grade Group: 4-5

Topic: Berries

Curriculum Standard: Math 10B2D

Lesson Background

This is for the teacher's own knowledge, reasoning to topic, how it relates to nutrition and student health

Helping students to understand why products are more expensive during certain times of the year will allow them to grasp the concept of seasonality. By purchasing imported products the student is spending more money for a less nutritious item. When not in season, items are picked prematurely and then sprayed with chemicals to ripen while being transported. They appear fresh and ripe when they arrive to the local grocery store. By picking products before they are ripe, they have not yet developed all the beneficial phytochemicals and nutrients our bodies need. Not only is buying items out of season less healthy for you, it is also much more expensive.

Lesson Objectives

Only need 1 or 2

Determine how to adjust the two prices so they can be compared.

Interpret the results to classify as "Berry Expensive" or "Berry Good Deal."

Classroom Activity

Lesson Description

Brief overview for teacher's own knowledge

Help students work through the word problems relating the berry prices during different seasons to determine which season has the better deal.

Lesson

This should read like a script with instructions for what teacher should say and do

In order to determine what the better deal is, you must calculate all items into the same unit and then compare prices. Today we will take a variety of berries and compare their prices during two different seasons. Help to determine what month has the better deal based on seasonality.

Eating in season costs less money and provides a more nutritious and delicious meal!

Activity

This can be short, just to reinforce concept with students, or it can be the majority of the lesson

Complete the following word problems:

1.) You are shopping at the supermarket in February and notice that blackberries are on sale: buy one pint, get one half off! The price for both is \$6.00. You remember in the summer a pint of blackberries was \$2.75. Are today's blackberries "berry expensive," or a "berry good buy?"

Answer: February = \$4.00 per pint - "berry expensive." Blackberries are seasonal in summer months, therefore cheaper.

2.) You make raspberry jam that requires a pound of raspberries every six months. You last made jam in December, and your bill was \$12.00. You are cooking jam again, but this time Berries were \$2.00 for 4oz (remember, there are 16oz in 1lb). Was your bill in June "berry expensive," or a "berry good buy?"

Answer: June = $\$2.00/4\text{oz} \times 4\text{oz}/\text{lb} = \$8.00/\text{lb}$ - "Berry good buy"

Check yourself: December = $\$12.00/\text{lb} \div 4\text{oz}/\text{lb} = \3.00 for 4oz - "Berry expensive"

3.) Your family is in charge of making the berry fruit salad for both Thanksgiving and Fourth of July. Your mom always buys ONLY 1 container of each item. Which holiday does she get a better deal?

During Thanksgiving items were the following prices: Strawberries 2 for \$7.00, Elderberries \$5.25, Raspberries \$3.75, Gooseberries 3 for \$12.00, Blueberries \$2.50

Today, July 4th, were the following specials: Strawberries 2 for \$6.00, Elderberries 4.50, Raspberries 3 for \$9.00, Gooseberries \$3.00, Blueberries 2 for \$3.00

Answer: Thanksgiving = $3.50 + 5.25 + 3.75 + 4 + 2.5 = 19$ "Berry Expensive"

4th of July: $3 + 4.5 + 3 + 3 + 1.5 = 15$ "Berry Good Buy"

Closing

Teacher should sum up what was learned for students

Purchasing items during the season they are harvested makes products cheaper. Berries are ready to be harvested in the summer months. This makes them cheaper in June, July, and August. Make sure that when comparing prices both items are in the same units. Determine the best way to make them comparable, calculate, and then do the actual comparison.

Cafeteria Connection

How can what was discussed in the lesson be reinforced in the cafeteria serving line?

Your cafeteria serves local food also. Look over the menu with students and have them circle items that are currently in season and bought locally. Encourage students to try each local item this month and have them report back with what they enjoyed.

Home Activity

How can the lesson be extended back home – this can be a short activity suggestion or it can offer a suggestion for a follow up lesson to be taught

Check your fridge and see if your parents have bought any berries out of season. Think of what you like to eat during different times of the year – Juicy fruit in the summer, hardy vegetables in the winter. These preferences usually match up with what foods are available that time of year.