


# Field Trip Packing List

5th Grade Math Project · Outdoors & Science

**Grade 5 · Remedial**

Name: _____ Date: _____ Class: _____

## The Challenge

Your class is going on an all-day nature field trip! You are in charge of packing water, rope and supplies, and everything has to be measured.

**You will make:** Packing Plan

## What you will learn

- Convert customary units of length, weight and capacity
- Convert metric units
- Solve multi-step measurement problems

## Materials

- Pencil
- Conversion chart
- Ruler (optional)

## How to do it

1. Part 1: Water Station
2. Part 2: Rope for the Tent
3. Part 3: Backpack Weight
4. Part 4: Trail Distance
5. Check your work and share your packing plan.

## Part 1: Water Station

The class brings 2 gallons of water. 1 gallon = 16 cups.

**1.** How many cups of water is that?

**2.** Is that enough for 16 students to get 2 cups each?

## Part 2: Rope for the Tent

You have 6 feet of rope and cut it into 8-inch pieces.

**3.** How many inches of rope is that?

**4.** How many full pieces?

**5.** How many inches are left over?

## Part 3: Backpack Weight

The backpack holds: 3 lb 4 oz, 1 lb 8 oz.

**6.** What is the total weight in pounds and ounces?

**7.** What is the total in ounces?

## Part 4: Trail Distance

The nature trail is 2 kilometers long.

**8.** How many meters is that?

## ⭐ Extension Challenge

The packing rule says a backpack can weigh at most 10 lb (160 oz). Is this backpack under the limit? By how many ounces is it under or over?

## How your project will be scored

| Category | 4 Excellent | 3 Good | 2 Developing | 1 Beginning |
|---|---|---|---|---|
| Math accuracy | All answers correct | Most answers correct | Some answers correct | Few answers correct |
| Shows work | Clear work for every step | Work for most steps | Some work shown | Little work shown |
| Explains thinking | Clear, complete explanations | Mostly clear explanations | Some explanation | Little explanation |
| Final product | Complete, neat and creative | Complete and neat | Partly complete | Not complete |