

Field Trip Packing List

5th Grade Math Project · Outdoors & Science

Grade 5 · Advanced

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 5 gallons of water. 1 gallon = 16 cups.

1. How many cups of water is that?

2. Is that enough for 30 students to get 2 cups each?

Part 2: Rope for the Tent

You have 25 feet of rope and cut it into 14-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: 5 lb 12 oz, 3 lb 9 oz, 2 lb 14 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 3.7 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