

Science speakers

Forestry

Purpose of the program

The purpose of this program is to help children connect their science curriculum to interests and careers and to stimulate their curiosity. We wish to awaken children to the wide variety of jobs that people do and help them understand the necessity of a good education to getting the jobs. By illustrating how basic science concepts are used in their work, speakers show how science is fundamental to daily life.

Forestry intersects with the first grade and second grade science curriculum. Below are content points and a general outline to help you structure your talk.

Reminders

Plan your presentation to run about 20 minutes. Then give the children 5-10 minutes for questions.

Children love to see examples; it helps them remember and understand. Any items you can show them and demonstrate will impress and delight them.

Please arrive at the school office at least 10 minutes before you are scheduled to speak.

Call **Mary Goljenboom** at United Way of Lake County with questions: **847 775 1058**.

What the children are learning

First graders (age 6) study solids and liquids. They learn to recognize differences between solids and liquids. The science content includes the following points:

- Liquids pour and flow and take the shape of their container.
- Solid materials come in all sizes and shapes.
- Pieces of solid materials (like gravel or sand or soil) can pour like liquids, but maintain their shape.
- Some solids dissolve in water; others do not.
- Some liquids mix with water; other liquids form a layer above or below water

What you could say

Define your job. For example, *A forester helps trees to grow especially in places like parks and forest preserves.*

Explain to the children how the science they are learning is used in your job. For example, *Trees and plants are solids. Most trees and plants live in soil which is also a solid. They all need a liquid to live and that liquid is water.*

Please tell the children about the duties and responsibilities of your job. Please also tell them some of the things that you enjoy about it. As you explain and/or demonstrate, please remind the children of some of the science points above. You do **not** need to refer to all of them.

Please tell the children what kind of education is needed to do the job and how you got interested in this work.

What the children are learning

Second graders (age 7) study air and weather. They learn to observe and record changes in the weather over time.

- Temperature and precipitation, are components of the weather that can be described.

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- Each season has a typical weather pattern that can be observed, compared, and predicted.

What you could say

Define your job. For example, *A forester helps trees to grow, especially in places like parks and forest preserves.*

Explain to the children how the science they are learning is used in your job. For example, *When we plant trees, we choose types that will get enough water from rain or from being close to a pond or river. We also choose ones that can live in the extreme heat and cold of this area.*

Please tell the children about the duties and responsibilities of your job. Please also tell them some of the things that you enjoy about it. As you explain and/or demonstrate, please remind the children of some of the science points above. You do **not** need to refer to all of them.

Please tell the children what kind of education is needed to do the job and how you got interested in this work.