

## Science speakers

## Arts

***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.

Arts careers intersect with the fourth grade and fifth 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 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***

**Fourth graders** (age 9) study earth materials. They learn that earth materials provide many of the resources that humans use. The science content includes the following points:

- Physical and chemical properties make earth materials useful in different ways, for example, as building materials.

***What you could say***

Define your job. For example, *I am an artist and I create \_\_\_\_\_ . I use some earth materials in my work.* Explain to the children how the science they are learning is used in this job or hobby. For example, *An artist must understand the properties of the earth materials to select the ones right for art. I use different types of clay depending on the piece I am creating.*

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***

**Fifth graders** (age 10) study models and designs. They learn to design and construct conceptual and physical models. The science content includes the following points:

- The way something is put together is its design.
- Models are developed to explain how systems work.
- A model is a representation or explanation of a system or interaction that cannot be observed directly.
- Conceptual models can be communicated through words and drawings.
- Physical models are constructed to demonstrate how something works or how it is constructed.

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*What you could say*

Define your job. For example *I am an artist and I create \_\_\_\_\_.*

Explain to the children how the science they are learning is used in your job. For example, *An artist makes sketches and drawings to show how pieces will look when completed.*

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.