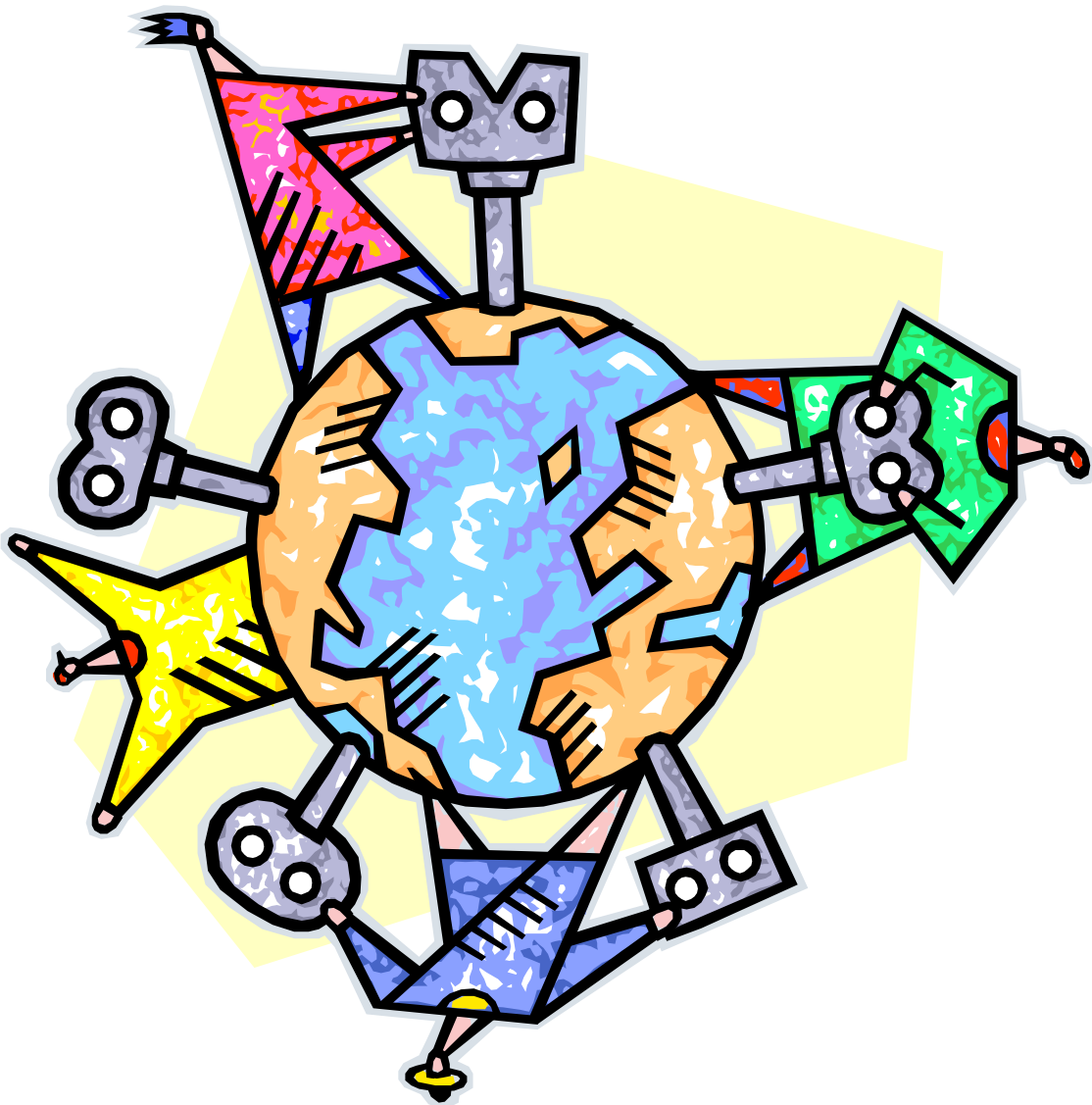


# National Engineers Month Volunteer Training

## Marbles in Motion



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Tips by grade level

[http://www.businesseducationlinks.org/pdxhome/nem/tips\\_by\\_grade\\_level.pdf](http://www.businesseducationlinks.org/pdxhome/nem/tips_by_grade_level.pdf)

Best Practice Tips

[http://www.businesseducationlinks.org/pdxhome/nem/best\\_practices.pdf](http://www.businesseducationlinks.org/pdxhome/nem/best_practices.pdf)

### Additional information:

NEM 2008 School presentation with speaker's notes

Activity Provided Courtesy of IBM:

Long-time leader and advocate for National Engineers Month

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**Suggested presentation timings (40 minute class)**

Start time:	End time:	Time spent (elapsed time)	Activity
		10 mins	<ul style="list-style-type: none"> <li>- Class arrives and settles.</li> <li>- Introductions</li> <li>-What is an engineer? How do people become engineers?</li> <li>- Introduction to the activity</li> </ul>
		10 mins (20)	Go over instructions, hand out materials and do the first run of the activity with 2 marbles.
		10 mins (30)	Discuss the result of first run then do the second run with 2 marbles.
		5 mins (35)	Discuss Energy and alternate forms
		5 mins (40)	Review final slides. Hand out give-aways, if time, or leave with the teacher.

**Suggested presentation timings (50 minute class)**

Start time:	End time:	Time spent (elapsed time)	Activity
		10 mins (10)	<ul style="list-style-type: none"> <li>- Class arrives and settles.</li> <li>- Introductions (slide 1)</li> <li>- What is an engineer?</li> <li>-How do people become engineers?</li> </ul> Introduction to the activity
		20 mins (25)	Go over instructions, hand out materials and do the first run of the activity with 4 marbles
		10 mins (40)	Discuss the result of first run then do the second run with 2 marbles.
		5 mins (45)	Discuss energy and alternate forms
		5 mins (50)	Review final slides. Hand out give-away, if time, or leave with the teacher.

## Presentation Pointers

It's much more important to make contact with your audience than to slavishly follow the presentation and speakers notes.

- Ask questions to involve your audience.
- Make eye contact.
- Use the slides and speakers notes as a guide. You don't need to read every word or explain every point.

When you ask questions, you'll probably need to wait longer than you expect for answers.

Don't encourage distractions:

- It's good to allow questions during the presentation but request that students put their hands up to ask or answer questions.
- If the students are not paying attention, ask them to listen and then wait for their attention. If you try to present over the noise you'll probably hurt your voice.
- Give activity instructions before you hand out the materials.

If appropriate, give personal examples of why you work in engineering.

**Have fun!!**