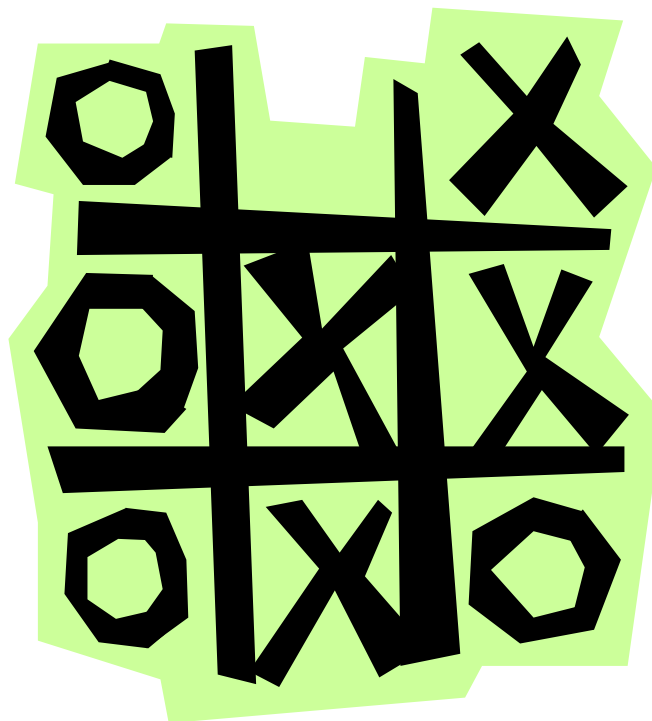


National Engineers Month Volunteer Instructions

Tic Tac Toe



IBM Tried-And-True Classroom Activity

TIC-TAC-TOE!

With this activity students learn about how computers work, specifically software applications as they compete in tic tac toe against a computer.

Contents:

Suggested presentation timings (40 minute class)

Suggested presentation timings (50 minute class)

Presentation Pointers

Connecting with your Host Educator

http://www.businesseducationlinks.org/pdxhome/nem/connecting_with_educator.pdf

Tips by grade level

http://www.businesseducationlinks.org/pdxhome/nem/tips_by_grade_level.pdf

Best Practice Tips

http://www.businesseducationlinks.org/pdxhome/nem/best_practices.pdf

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
		5 mins (5)	Class arrives and settles. Introductions (slide 1)
		5 mins (10)	What is an engineer? How do people become engineers? (slides 2-7)
		5 mins (15)	Introduction to the activity (slides 8-9)
		5 mins (20)	Demonstrate activity with teacher and remind students of activity instructions (slides 10 - 11)
		10 mins (30)	Hand out materials and have students do activity.
		5 mins (35)	Discuss the results of the activity (slides 12 -13)
		5 mins (40)	Review final slides (14-15). 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
		5 mins (5)	Class arrives and settles. Introductions (slide 1)
		10 mins (15)	What is an engineer? How do people become engineers? (slides 2-7)
		5 mins (20)	Introduction to the activity (slides 8-9)
		5 mins (25)	Demonstrate activity with teacher and remind students of activity instructions (slides 10 - 11)
		10 mins (35)	Hand out materials and have students do activity.
		10 mins (45)	Discuss the results of the activity (slides 12 -13)
		5 mins (50)	Review final slides (14-15). Hand out give-aways, 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!!