PASSPORT



Your Name: _____

Your School:

Chicago's Navy Pier

October 14, 2004

Dear "What's Next" participant:

Thank you for joining us today for this exciting expo.

This expo is full of fascinating and creative ideas and prototypes. The technologies you will see today take time and money to create, but the most important ingredient in their success is IMAGINATION. You will see how yesterday's daydreams have become today's discoveries.



As you visit the different exhibits, make sure you speak with the scientists and ask questions about their ideas. Their life's work in science and technology is the key to a more exciting future and a more secure world.

Who knows, maybe you have an idea that could be "What's Next" in science or technology!

Whatever your dream, this is future science for you!

Spencer Abraham
Secretary of Energy

WHAT'S NEXT SCHEDULE

9:00-9:45 AM	Students Arrive, go to ballroom for pre-show activity			
10:00 AM				
10:40 AM	Students are dismissed from ballroom in shifts			
	based on group number			
10:45 AM	Exhibits begin on Second floor in Lobby and Balcony			
12:10 PM	Lunch begins according to the following schedule:			
12:10	Group 1 goes to lunch			
12:20	Group 2 goes to lunch			
12:30	Group 3 goes to lunch			
12:40	Group 4 goes to lunch			
12:50	Group 5 goes to lunch			
1:00	Group 6 goes to lunch			
1:10	Group 7 goes to lunch			
12:40-1:30	Students assemble and head to their buses at			
	predetermined times.			
1:30 PM	Last buses depart.			

Participating Exhibitors and Exhibits:

Ames Laboratory

www.ameslab.gov

- Chill Out with Magnetic Refrigeration
- Photonic Frenzy

Argonne National Laboratory

www.anl.gov

- Chemistry
- Driving the Future: Fuel Cells
- Materials of Tomorrow
- Meteorology: Forcasting the Future Today
- NEWTON Online and Ask a Scientist
- Palentology: Uncovering the Past
- · Science for All
- · Science of Toys
- Sizing it up: Microscopes and Forensic Science

Brookhaven National Laboratory

www.bnl.gov

- Computer Modeling in Structural Biology
- Magnetic Levitation Trains

Chicago Web Docent

cwd.uchicago.edu

• Bringing Museums to the Digital Classroom

DELL DOE Federal Team

Visualization

Department of Energy - Office of Science

www.science.doe.gov

Department of Energy - Workforce Development

www.scied.science.doe.gov

Department of Energy - Joint Genome Institute www.jgi.doe.gov

• Fruitful DNA Extraction--The first step toward sequencing genomes.

Fermi National Accelerator Laboratory

www.fnal.gov

- Can You Measure Something Without Seeing It?
- Can You Read Particle Tracks?
- Do Rules Matter?
- How Good is Your Aim? Knock Balls into One Another.
- Invisible Forces Here! What Can We Learn?
- Invisible Particles! What Can You Detect?
- It's Hiding! What Characteristics Can You Identify?
- Let's accelerate! Are you faster than the ball?
- Mr. Freeze

IBM

www.ibm.com

• Think Outside the Box

Idaho National Engineering and Environmental Lab

www.inel.gov

• Hazmat Cam - Wireless Video System

Los Alamos National Laboratory

www.lanl.gov

• Robotics

Lawrence Berkeley National Laboratory

www.lbl.gov

- Saving Energy by Solid State Lighting: Investigating Nanomaterials by Digital Image Processing in Microscopy
- Seeing the Light

Lawrence Livermore National Laboratory

www.llnl.gov

- Rainbows of the Universe
- Science of the Future: Biotechnology

Microsoft	www.microsoft.com			
 Technology for the Future 				
National Energy Technology Laboratory	www.netl.doe.gov			
 NETL 3D Data Visualization 	_			
National Renewable Energy Laboratory	www.nrel.gov			
 Fuel Cells and the Hydrogen Econon 	ny of the Future			
Oak Ridge National Laboratory	www.ornl.gov			
Radiation in the Middle School Classroom				
Pacific Northwest National Laboratory	www.pnl.gov			
A Geologic Solution to Global Warming				
 Acoustic Inspections - Seeing with Sound 				
 What is a Robot? Robotics in Educa 	tion and Industry			
Princeton Plasma Physics Laboratory	www.pppl.gov			
• Plasmas				
Savannah River National Laboratory	www.srs.gov			
 Racing Pipe Crawlers 	_			
Stanford Linear Accelerator Center w	ww.slac.stanford.edu			
 High Speed data transfer will revolu 	itionize your lives			
Thomas Jefferson National Accelerator Facili	ty www.jlab.org			
 Magnets, Electromagnets, and the V 	Vorld Around You			
Underwriters Laboratory	www.ul.com			
• I am Safety Smart!A Lesson in Home Safety				
USC, ANL, LLNL, LANL, ORNL, SNL, NCSU, U	JCSC, Second Sight			

• Artificial Retina - Doheny Eye Institute at USC

www.doemedicalsciences.org

Getting Your Passport Stamped

When you are traveling around the learning stations today, you will find a lot of exciting science and technology from all over the country.

After learning from each station, you will want to have them stamp your passport with their stamp.

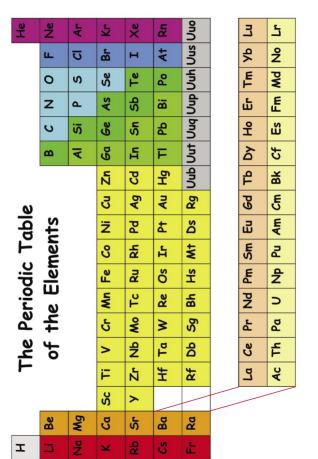
The stations are divided up into ten different groups, based on the different classifications of elements in the periodic table.

Each station has a stamp of an element from one of those groups. They will stamp your passport in the proper place for their element. For example, the Aluminum (Al) stamp can only go in the metals group.

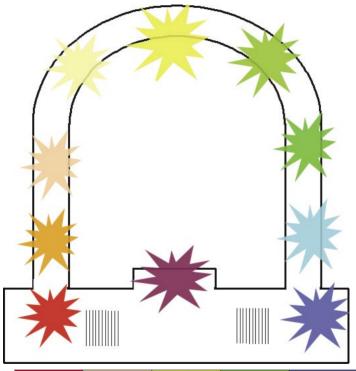
Your mission is to get at least ten stamps during your travels today.

When you are done, you can take your passport to the inspector station located in the grand ballroom and receive a goodie bag to take with you.

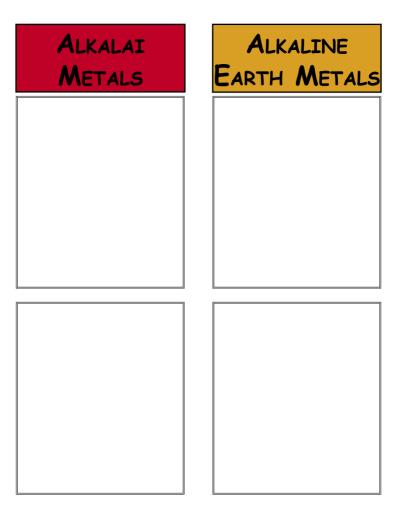
Most of all, have a good time and learn a lot!



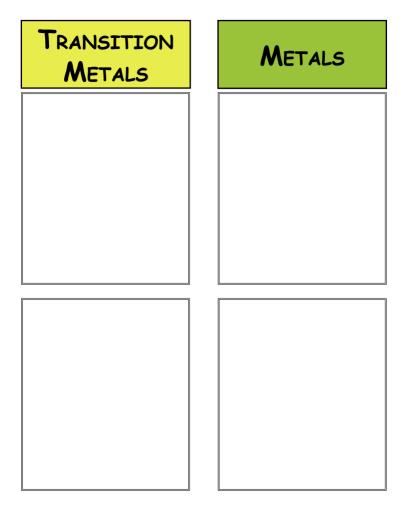
Science Station Groupings

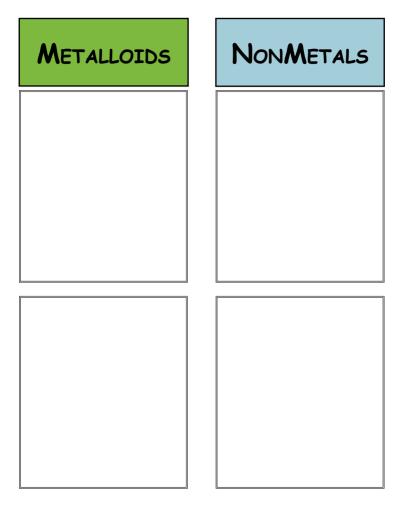


Alkali Metals	Lanthanides	Transition Metals	Metalloids	Halogens
Alkaline Earth Metals	Actinides	Metals	Nonmetals	Noble Gases



LANTHANIDES	Actinides





HALOGENS		Noble Gases

Notes

Passport Created by Aaron Schuetz, Albert Einstein Distinguished Educator Fellow in conjunction with the Department of Energy's Office of Science: Workforce Development for Teachers and Scientists. For questions or comments, please send e-mail to: aaron.schuetz@science.doe.gov



science.doe.gov