

Hands-on-Tech

Post Visit Activities

We hope you enjoyed your visit to Sony Wonder Technology Lab! As a means of enhancing your students' experience and extending their visit into the classroom, we are providing you with these post visit materials to share with your class.

Discussion Questions

- Discuss the students' favorite mobile devices and what features they most enjoy using. Have them consider what mobile devices might be like 50 years from now -how they may look and what they will have the ability to do. Encourage them to research the latest electronic inventions and explore what new advancements are being made in the fields of nanotechnology and environmental engineering/ sustainability and how these advancements, coupled with continued convergence of content, might impact the future development of mobile devices.
- Animators, TV Producers, Directors and many others in the fields of media and entertainment often work in teams to create the TV shows and films we watch. Have students investigate the many career opportunities available in these areas and discuss what makes each role unique and how they all work together.
- Every day, experts in various fields of medicine use the latest advancements in cutting-edge technology to improve patient care. Haptic technology is a good example of this. Discuss other inventions/ technologies that are used in medicine, and how they assist doctors and surgeons in their diagnosis and treatment of patients.

In Class Activities

- *Communicating Sustainability:* More and more technological innovations are taking into account sustainability and the environment. Lead your class in a discussion on the importance of environmental sustainability. With students working in groups, invite them to develop a media-based project where they engage and inform the public about the importance of environmental stewardship. Encourage them to gather data, public opinion (via interviews or polls) and historical/ scientific references.
- *Comic Strip Stories:* Invite students to create a comic strip based on a story of yours or their choosing. Discuss strategies for telling a story using drawn characters, written dialogue and frame by frame sequencing. Cut 5 x 17" sheets of dense paper, preferably watercolor grade, and distribute several sheets to each student. Have them share their final comic strips with the class.
- *Current Events:* Encourage students to keep up with current events by having them role-play a live TV broadcast. Have them rotate their roles on a weekly basis, taking turns researching, writing, producing and delivering their news stories. Set up tables in class where students can take turns delivering their reports to the class. Encourage them to work in teams to create graphics and cue cards to mimic a real TV production.

Resources for Students and Teachers

Books

The New York Times Circuits: How Electronic Things Work By: Henry Fountain

Experiencing Music Technology By: David Brian Williams and Peter Richard Webster

Enchanted Drawings: The History of Animation By: Charles Solomon

Ultimate Robot By: Robert Malone

Exploring Visual Storytelling By: Brian Arnold and Brendan Eddy

Masters of Animation By: John Grant

The Picture History of Great Inventors By: Gillian Clements

Eyewitness Books: Future By: Michael Tambini

Black Pioneers of Science and Invention By: Louis Haber

Cinema and the Invention of Modern Life By: Leo Charney and Vanessa R. Schwartz

Nanotechnology: A Gentle Introduction to the Next Big Idea By: Mark A. Ratner and Daniel Ratner

Nanotechnology: Science, Innovation, and Opportunity By: Lynn E. Foster

Television Disrupted: The Transition from Network to Networked TV By: Shelly Palmer

Websites

Wikipedia: <http://en.wikipedia.org>

How Stuff Works: www.howstuffworks.com

Science News for Kids: www.sciencenewsforkids.org

BrainPop: www.brainpop.com

Internet Public Library: www.ipl.org

MIT's Technology Review: www.technologyreview.com

Science Net Link: www.sciencenetlinks.com

CNet News: <http://news.cnet.com>

Smithsonian Education: <http://smithsonianeducation.org>

Instructables: www.instructables.com