

Human Tools Design Project Lessons

Websites

The Not So Ancient Art of Chindogu

This website features a short article about the background of Chindogu, the term coined by Japanese writer and inventor Kenji Kawakami. Included in the article are some examples of Chindogu.

(http://www.gadgets-gizmos-inventions.com/Chindogu.html)

10 Chindogu: The Art of Intentionally Making a Useless Invention

This website highlights 10 Chindogu inventions such as a Carrot-Grating Ukulele, a Chewing Gum Holder and Magnetic Slippers.

http://inventorspot.com/articles/chindogu_art_intentionally_making_useless_invention_39210

Levers in the Human Body

This website, which includes animation and video, highlights the many levers that exist within the skeletal structure of the human body.

(http://www.dynamicscience.com.au/tester/solutions/hydraulicus/humanbody.htm)

Tools and Machines

This website provides good background information about how tools and simple machines work.

(http://www.explainthatstuff.com/toolsmachines.html)

ToolMaking

For those students who might be interested in learning more about other organisms who make tools, this website features Jane Goodall's observations of how chimpanzees use the materials around them to make tools. Included on this site is wonderful, short video showing 9 different tools a chimpanzee utilizes.

(http://www.janegoodall.org/chimp-central-toolmakers)



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Books

101 Unuseless Japanese Inventions: The Art of Chindogu

By Kenji Kawakami; Translated by Dan Papia (1995, W.W Norton & Company, Inc.)

99 More Unuseless Japanese Inventions: The Art of Chindogu

By Kenji Kawakami; Translated by Dan Papia (1997, W.W Norton & Company, Inc.)

These books, written by the original genius behind and creator of Chindogu, are geared towards adult readers. However, the books include ample photographs of Chindogu designs that might inspire the children.

Inventions

By Valerie Wyatt; Illustrated by Mathew Fernandes (2003, Kids Can Press)

This book, filled with descriptive illustrations contains short, entertaining, informative synopses

of a number of different human inventions. Some of the categories of inventions include:

Everyday Inventions, Wearable Inventions, Edible Inventions, and Medical Marvels.

Science in Seconds for Kids

By Jean Potter (1995, John Wiley & Sons, Inc.)

This book includes over 100 investigations using common materials. They are designed so that young children can follow and complete the investigations in a short amount of time. The experiments, divided into categories such as The Human Body, Light, Machines, and Weather, provide many opportunities for students to create simple examples of tools and technology that are often much more complex in the real world.



Science in Seconds with Toys

By Jean Potter (1998, John Wiley & Sons, Inc.)

This book, written by the same author as the previous book, includes over 100 different investigations using common materials. They are designed so that young children can follow and complete the investigations in a short amount of time. The experiments, divided into categories such as Throwing, Flying, and Falling or Balancing, Swinging, and Spinning provide ample opportunities for students to investigate a variety of science and engineering principles.

Wow! World of Wonder: Machines and Inventions

By Ian Graham (2008, Children's Press; An Imprint of Scholastic Inc.)

This book provides a glimpse of the history of human inventions. The book, filled with descriptive illustrations, begins with the invention of simple tools like knives and axes made from stones and bones. Next come the inventions of the wheel, ways to measure time, and defensive weapons. Other inventions include writing, improved sanitation, the steam engine, the light bulb, and modern travel.