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***Middle School Media Materials***  
***~How Does That Work? 2008~***



## MIDDLE SCHOOL MEDIA MATERIALS HOW DOES THAT WORK 2008

- ⊕ **How Does That Work?**
- ⊕ **Electric Juicer, Paper Shredder, Car Airbags**  
303484 DV  
JH 22 min 2003 Home & Garden Television  
Though it may be hard to imagine, drinking juice as we do now was uncommon until the 20th century. The juice from oranges, grapefruits and lemons were extracted with something called a reamer – usually made of glass, china or aluminum. The paper shredder started its wave of destruction in 1898. That's when an Austrian artillery officer needed to find a way to destroy ballistics drawings before they fell into enemy hands. In 1986 the first airbags became available to drivers in the United States. In that year, German automaker Mercedes-Benz offered these revolutionary safety devices on all their vehicles. Contains teacher guide.  
Inventions; Sci.II.1
- ⊕ **Electric Outlet, Water Purifier, Speaker**  
303444 VH  
JH 22 min 2003 Home & Garden Television  
Find answers to questions about frequently used household items.  
Electricity; Electricity & Electronics; Sci.IV.1; Sci.IV.2; Sci.IV.4; Water - purification; Sound
- ⊕ **Food Dehydrator, Sauna, Plasma TV**  
303483 DV  
JH 22 min 2003 Home & Garden Television  
The food dehydrator, conceived in the early 1900s, was a small wooden hillside structure heated by a fire built underneath. Warm air from the fire flowed upward, extracting moisture from food laid out on wooden trays. The air then escaped through a vent in the roof, carrying the food's moisture with it. The sauna has its roots in Finland. In fact, it's how early Finnish settlers first bathed more than 2,000 years ago. The plasma television had its beginnings in 1964 at the University of Illinois. That's when Dr. Donald Bitzer and research engineer Gene Slottow had the crazy notion to use electricity and neon gases to create high-quality graphic images on a screen. Contains teacher guide.  
Inventions; Sci.II.1
- ⊕ **Garage Door Opener, Circuit Breaker, Trash Compactor**  
303445 VH  
IJ 22 min 2003 Home & Garden Television  
Looks at the origins of familiar items and explains how they work.  
Electricity & Electronics; Environment (see also Conservation, Ecology, Pollution); Sci.III.5; Sci.IV.1
- ⊕ **Ice Cream Maker, Computer Scanner, Keyed Lock**  
303446 VH  
JH 22 min 2003 Home & Garden Television  
1. Making ice cream as we know and love it started in 1846 with a woman from New Jersey named Nancy Johnson. She built a handcranked machine that mixed a creamy concoction in a bowl surrounded by ice. 2. In 197 a team of engineers at Kurzweil computer products took the heart of a satellite's camera, something called a charged coupling device or c.c.d. and used it to make electronic copies of documents. 3. The Romans were the first to make locks out of metal, but instead of lifting pins, their keys had to move through a small maze called a ward. Around 1500 the pin and tumbler design was reintroduced, now with metal.  
Computers; Computers - History & Development; Sci.I.1; Refrigeration and Refrigerating Machinery; Locks and keys
- ⊕ **Keyboard, Nail Gun, Oscillating Fan**  
303447 VH  
JH 22 min 2003 Home & Garden Television  
Learn about the origins and technology behind the keyboard, nail gun and oscillating fan. Contains teacher guide.  
Energy & Consumerism; Force & Motion; Math.I.1; Sci.II.1; Sci.IV.3; Technology