

How Does It Work? Project

My grandpa used to say that “there is no such thing as auto mechanics.....only parts replacers”. A lot of truth exists in that statement as many people really don’t know how to fix things. The inability to solve problems has become more and more common. People are wanting an app to resolve issues or have someone else do it. A lack of problem-solving skills and lack of knowledge of how things work requires hard-earned money to go into the hands of others. This is especially true with electronic devices (*myself included*). For example, cell phones and computers are not usually repaired...they are replaced. For this project, you will research a chosen electronic device and create a presentation about how it works. Your chosen device will be presented to the class using iMovie. Research should be conducted outside the classroom, however class time may be available to create your presentation. This project is worth 100 points and will be due in three weeks. (*The first week will be used to collect information, the second week is to build the iMovie, and the third week to edit the project.*) Grades will be based on content, quality, and appearance. The following criteria must be fulfilled :

I. Choose one of the following electronic devices.

- SEE THE BACK SIDE.

II. State information for each of the following :

1. Title (5 points)

- What is the title of your presentation?

2. What Is It? (12 points)

- Identify 5 facts about the **purpose** of the device
(*may include main usage, types, costs, consumer audience, etc.*)
- Include a visual aid (picture, video, etc.)

3. Development (12 points)

- Identify 5 facts about how the device was created **and** how it has changed over the years
- Include a visual aid (picture, video, etc.)

4. Current Usage (12 points)

- Identify 5 facts about how the device is currently used **or** being modified for the future
- Include a visual aid (picture, video, etc.)

5. How Does It Work? (12 points)

- Identify 5 steps (**minimum**) about how the device works
- Include a visual aid (picture, video, etc.)

6. Additional Facts (12 points)

- Identify 5 facts (**number-based**) or general information about the device
- Include a visual aid (picture, video, etc.)

III. Outline (15 points)

: Put all information on a typed outline (*include your name*)
: Project will not be graded until an outline is submitted
: Information on the outline will be information graded
: Site sources (videos included) on the outline

IV. Hints For Neatness / Organization (10 points)

: Create visuals for the video (pictures, videos, interviews, etc.) - **RECORD HORIZONTALLY!!!**
: Create dialogue that incorporates factual information
: Clean up clip transitions
: Make sure information is well enunciated

V. Presentation (10 points)

- Don’t read information off of papers during iMovie (REHEARSE!)
- This should not be a “spur-of-the-moment” recording
- Have fun with this project, but remember that real people have these conditions
- Every swear word, innuendo, or derogatory gesture will result in a **50-point deduction**

Electronic Devices

3-D Printer	iPod
Air conditioner	Laser printer
Alarm clock	LED Lights
Backup charger	Microwave
Bread maker	Monitor
Bluetooth speaker	Mouse (computer)
Calculator	Mp3 player
Car toy (R/C)	Piano (electronic)
Ceiling fan	Printer
Cell Phone	Programmable Thermostat
Chandelier	Projector
Clock	Radio
Clothes dryer	Refrigerator
Coffee maker	Remote control
Computer	Robotic vacuum cleaner
Copier	Scanner
Digital camera	Sewing machine
Digital balance	Smart television
Doorbell camera	Smartphone
Dryer	Speakers
DVD / Blue-Ray player	Tablet
Earphones <i>(or whatever they are this year)</i>	Television
Electric guitar	Timer
External hard drive	USB drive
Fan	Walkie-talkie
Facial cleansing machine	Washing machine
Fax	Watch
Game controller	Water purifier
Gaming system	Webcam
Garage Door Opener	Wifi modem
Headset	Wireless microphone
Inkjet printer	