ENGLISH FOR SPECIFIC PURPOSES

ENGLISH FOR ELECTRICAL ENGINEERING

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PREFACE

English for Electrical Engineering is written to fulfill students' need to learn English as a preparatory for job communication. This book is designed to provide an opportunity to develop students' English skills more communicatively and meaningfully.

It consists of twenty eight units. Each unit presents reading, writing, and speaking section. Reading section consists of pre-reading, reading comprehension and vocabulary exercises related to the topic of the text. In writing section, some structures and sentence patterns are completed with guided writing exercises. Meanwhile, in speaking section students are provided with model and examples followed by practical activities which are presented in various ways. In addition, students are also equipped with listening comprehension skill which is presented in a separate textbook. The materials have been arranged and graded in accordance with their language levels.

Above all, to improve the quality of this textbook, criticism and suggestions for better editions are highly appreciated.

TABLE OF CONTENTS

Objectives

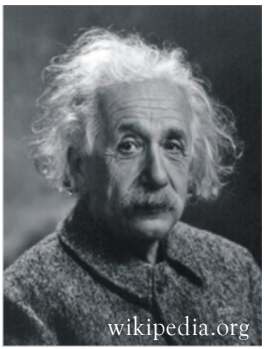
After completing this unit, students are expected to master three language skills:

1. **Reading**
   - Students are able to comprehend general ideas of the text.
   - Students are able to find explicit information from the text.
   - Students are able to find implicit information from the text.
   - Students are able to find the meaning of keyword related to the text.
2. **Writing**
   - Students are able to write an autobiography.
3. **Speaking**
   - Students are able to make a self-introduction.

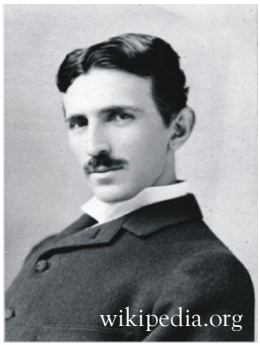
Unit 1

Before reading the text, have a look at the pictures below to answer the questions that follow. Browse the necessary information.

Albert Einstein



Nikola Tesla



Isaac Newton

1. Of three scientists in the above pictures, who do you think is the youngest?
2. Who is your most favorite scientist among the three? Why do you think he is so inspiring?
3. Mention one of the most phenomenal inventions made by the each of three scientists.

Let's read.

NIKOLA TESLA

Nikola Tesla was one of the greatest electrical ***inventors*** who has ever lived. His technological achievements transformed America from a nation of isolated communities to a country connected by power ***grids*** where information was available upon demand. In the 20th century, it was Tesla's technology that united the United States and eventually the world.

Tesla's life was like a movie. It was the story of a brilliant and charismatic immigrant who rose to the height of celebrity with his amazing talent, and then was tragically undone by his own visionary ideas. The ***cast*** of characters includes: Thomas Edison, J. Pierpont Morgan, Guglielmo Marconi, George Westinghouse, Mark Twain and many more.

A Serb by origin, his early discovery of the ***alternating*** current motor led him to America to seek a venue for his discovery. Here he developed the polyphase AC system of power transmission, which drove every home and industry in the country. He invented the Tesla coil to create high-frequency electricity, and with it, neon and florescent lighting, radio transmission, remote control, and hundreds of other ***devices*** are now an essential part of our everyday lives.

Tesla was also a visionary thinker, and in his papers and interviews he anticipated the development of radio and television broadcasting, robotics, computers, faxes, and even the Strategic Defense Initiative.

Tesla's great dream was to find the means to broadcast electrical power without wires in between. But like many geniuses, he was not a practical man. He gave his life to realize his visions, while others made millions with his inventions. In the end, he ***wound up*** a ***penniless*** and forgotten man.

In his later years, Tesla was regarded as an eccentric scientist. Ridiculed by his ***contemporaries***, his ideas frequently appeared in works of science fiction. He was the inspiration for the mad scientist in Max Fleischer's Superman cartoons.

At the height of World War Two, Tesla claimed that he invented a powerful "death beam" that could destroy attacking aircraft. He proposed a system of beam weapons to protect the borders of the United States and other European nations. When he died, most of Tesla's technical papers mysteriously disappeared, and many have not been found.

Tesla was so far ahead of his time that many of his ideas are only appearing today. His ***legacy*** can been seen in everything from microwave ovens to MX missiles. But more than this, Tesla's life inspires us to believe that anything we can imagine can be accomplished - especially with electricity.

Anonymous. 2013. *www.pbs.org*

Vocabulary list in context:

alternating (adj) : occurring in or forming a repeated series
cast (n) : figure
contemporary (n) : something (e.g. ideas in style, design, fashion etc) that occurs in the same period of time
device (n) : tool or piece of equipment that has been made for some special purposes
grid (n) : network of electrical wires and equipment that supplies electricity to a large area
inventor (n) : one who produces something useful for the first time
legacy (n) : something transmitted by or received from an ancestor or predecessor or from the past
penniless (adj) : having no money, very poor
venue (n) : place where events of a specific type are held
wind up (v) : to come to a conclusion

Task 1

Find seven electronic devices mentioned in the following puzzle by circling the words. Some clues are provided below.

A	B	C	D	E	O	I	J	K	L	M	R	I
B	C	A	T	D	T	F	G	H	I	F	A	X
C	A	C	B	I	E	E	N	H	A	N	D	L
D	D	O	M	D	L	D	E	R	D	D	I	R
R	E	M	O	T	E	C	O	N	T	R	O	L
B	I	P	D	I	V	S	N	L	L	H	N	T
A	O	U	H	Y	I	H	M	I	A	T	S	T
B	M	T	E	L	E	V	I	S	I	O	N	V
C	A	E	J	D	I	N	G	I	N	M	W	W
D	S	R	D	E	C	G	H	I	J	A	X	X
E	S	C	T	F	K	K	L	M	N	T	Y	Y

Vertical

1. an electronic device that can store and work with a large amount of information

2. a discharge lamp in which the gas contains a large proportion of a particular gas
3. a device that is used to receive signals and transmit audio

Horizontal

4. a device used to send and receive printed materials (such as documents and drawings) and photographs using telephone lines
5. a small device that is used to operate electronic equipment from a distance by using electronic signals
6. an electronic device used to send images and sounds by a wire or through space

Task 2

Tick (√) T (True) if the statement reflects the information in the text, F (False) if it contradicts the information in the text, and NG (Not Given) if it is not found in the text. If it is False, write the correct statement.

Statements	T	F	NG	Corrections for False Statements
1. Nikola Tesla was the only one electronic inventor who had contributed great impacts to the world.				
2. Tesla's technology segregated some States in the USA and the world.				
3. Nikola Tesla did not accomplish all his visionary ideas.				
4. Nikola Tesla was more influential than Thomas A. Edison.				
5. Nikola Tesla was a European.				
6. Tesla's scientific research conveyed the development of electronic devices.				
7. Nikola Tesla was an inventor who tended more focus on theoretical frameworks.				

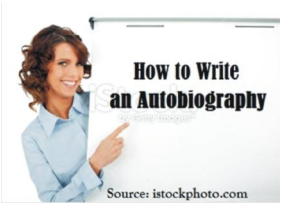
Task 3

Complete the following table by finding cause or effect statements from the text.

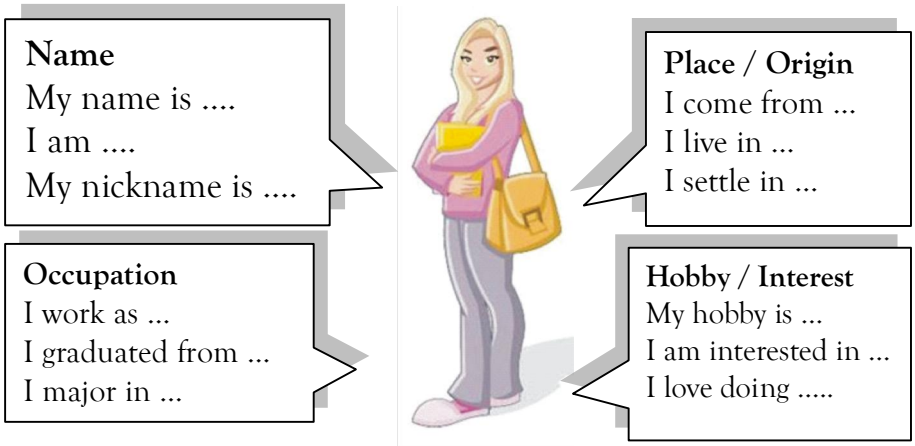
Cause	Effect
1. Nikola Tesla developed most of his electrical inventions in America.	1. America transformed from a nation of isolated communities to a country connected by power grids where information went due to the advancement of technology.
2. Nikola Tesla dedicated his lifetime to realize his visions, while other scientists earned millions from their inventions.	2. ....
3.	3. Nikola Tesla was well-known as a bizarre scientist.
4. Nikola Tesla was aware of the culmination point of World War II.	4. ....

Let's write.

WRITING AN AUTOBIOGRAPHY



An autobiography is a written account of the life of a person or biography written by that person. There are many famous figures that had written and published their own autobiographies. Every person can write his/her own autobiography. In case you want to write your own autobiography, you need to pay attention to some points. A short autobiography should provide some information regarding personal background and accomplishment. By writing your own short autobiography, you can help someone else know about you in brief. In order to write a well-organized short autobiography, you have to pay attention to some expressions commonly used below:



Have a closer look at the following example of a short autobiography.

Name	: William Henry "Bill" Gates III
Place and Date of Birth	: Seattle, Washington, October 28th, 1955
Nationality	: American
Occupation(s)	: businessman, philanthropist, investor, computer programmer, and inventor
Hobby/Interest	: software and computer programming
Motto	: It is fine to celebrate a success, but it is more important to heed the lessons of failure.
Vision and Mission	: Seeing a computer on every desk in every home

The information above can be elaborated as a short autobiography as follows:

BILL GATES

William Henry Gates III was born in Seattle, Washington on October 28, 1955. He is well-known as Bill Gates. He has become one of the most famous and richest American men in the world.

Bill Gates is the technology advisor of Microsoft now. Furthermore, he is known as a businessman, philanthropist, investor, computer

programmer, and inventor. He spends his lifetime doing what he loves, that is developing software. Due to his breakthrough in technology world, Bill Gates' inventions are unbeatable until now.

Behind his success, there are some life principles that have encouraged him to change the world through his invention in technology. He conveys a motto about his success to a lot of people. He states that it is fine to celebrate success, but it is more important to heed the lessons of failure. He also has a mission that someday he will see a computer on every desk and in every home.

Task 4

Identify some points regarding biodata, education bakgrounds, working experiences, and future outlook presented in the following autobiography.

ZUHRIA'S AUTOBIOGRAPHY

My name is Zuhria Husna. I was born in Malang on April 16, 1988. I accomplished my bachelor's degree from Electrical Engineering Department at University of Muhammadiyah Malang four years ago. I am now working as a junior researcher in Indonesian Institute of Sciences (LIPI).

Due to my excellent achievements in scientific research, I have been granted a scholarship abroad to enhance my scientific insights. I am now pursuing my master's degree in Electrical Engineering Department at Kyushu University, Japan. I am specializing myself in bioelectromagnetism. It is not easy to study in a foreign country because I encounter cultural shocks and a different educational system. However, I have a life principle, which is *"if there is no pain, there will be no gain."*

My hobbies are blogging and travelling. During my stay in Japan, I can do both hobbies at the same time. I love exploring Japan to gain Japanese historical and cultural insights so that I can write my adventure stories in my personal blog.

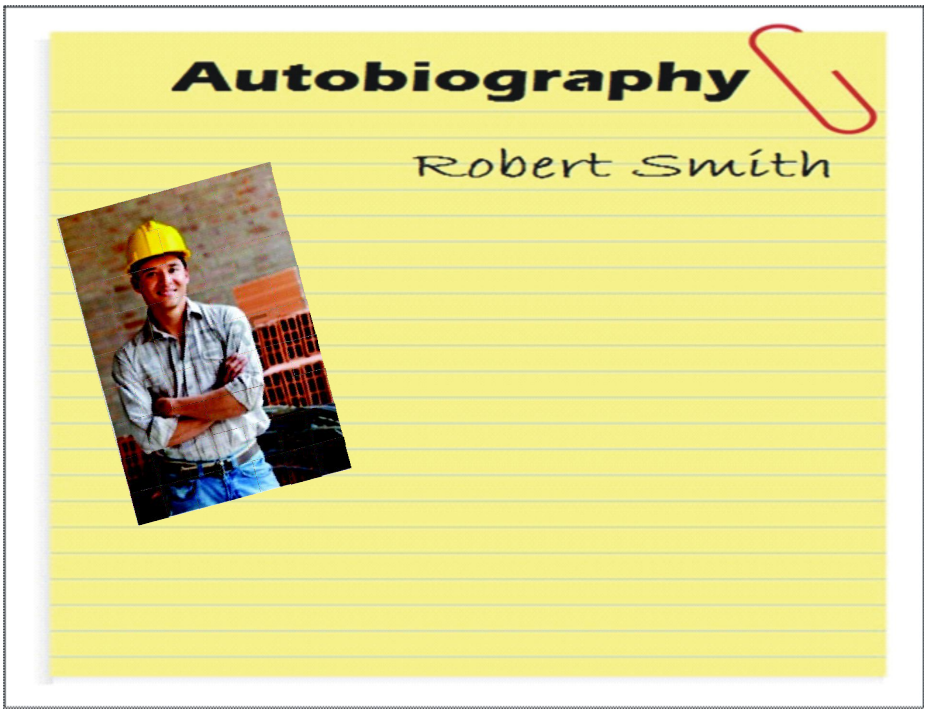
After accomplishing my master's degree in Japan, I want to return to Indonesia in order to share my knowledge to my friends and colleagues. Furthermore, I want to introduce an innovative idea about bioelectromagnetism in medical fields in Indonesia in both practical and theoretical frameworks so that I can help many patients who need to be cured by using technology.

Name	: _____
Place and Date of Birth	: _____
Age	: _____
Hobby	: _____
Current City	: _____
Occupation	: _____
University	: _____
Major	: _____
Specialization	: _____
Motto	: _____
Vision and Mission	: _____

Write 5

Write an autobiography based on the following information.

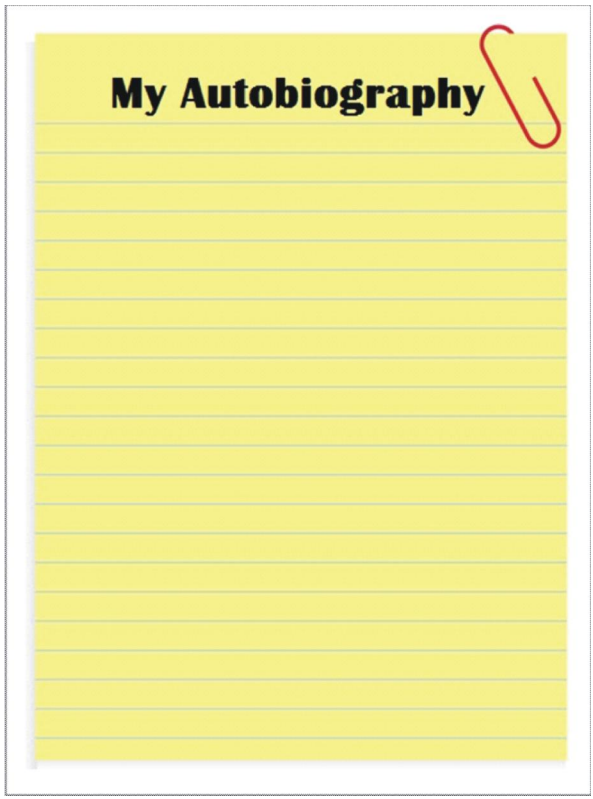
Name	: Robert Smith
Place and Date of Birth	: Boston, April 16, 1987
Current City	: New York
Hobby	: Reading, travelling, and swimming
University	: Massachusetts Institute of Technology (MIT)
Major	: Electrical Engineering
Achievement(s)	: (1) The best graduate in Electrical Engineer Department at Massachusetts Institute of Technology (MIT (2) Electrical Engineer of the Year at ElectroCorps
Occupation	: Junior electrical engineer in ElectroCorps
Motto	: Excellence is my habit and perfection is my goal



Task 6

Complete the form below with your personal information and then write your own autobiography.

Name	: _____
Place and Date of Birth	: _____
Address	: _____
Hobby	: _____
University	: _____
Major	: _____
Motto	: _____
Vision and Mission	: _____



Let's Speak.

SELF-INTRODUCTION

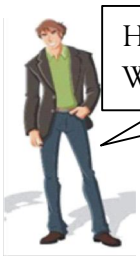
Self-introduction is needed when you want to cope with new environment where you do not get along with new people. By introducing yourself to other people, it means that you try to get along with new friends by mingling with them socially. Here are some expressions used to introduce yourself:

Hello!
My name is Rizka.
I come from Jember.
I live in Malang now.
I study electrical engineering.

Hi!
My name is Fasta.
My hobby is reading.
My future dream is
to be a professional
electrical engineer.

Task 7

Respond to these following questions orally.

1. 
Hi! My name is Arief. What's your name?

_____
_____

2. 
I'm currently living in the USA. Where do you live now?

_____
_____

3. 
I am a lecturer. I teach in electrical engineering department. What do you do?

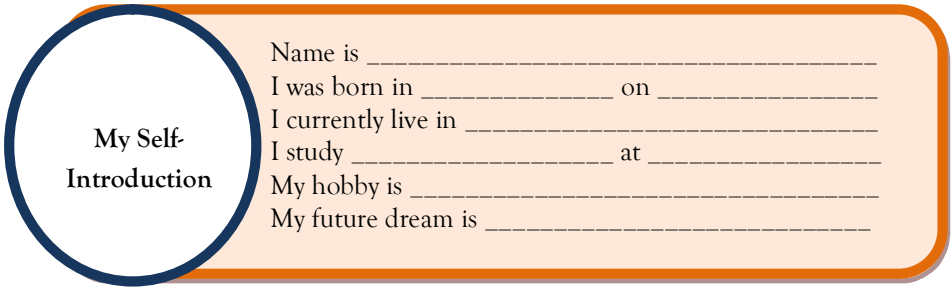
_____
_____

4. 
Nice to meet you.

_____
_____

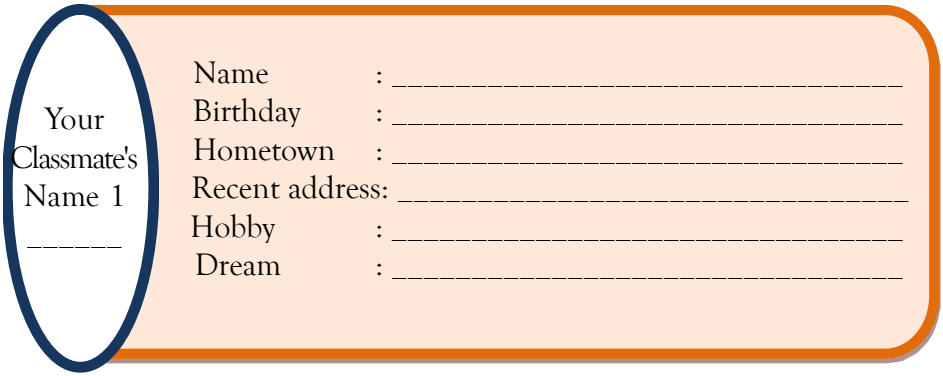
Task 8

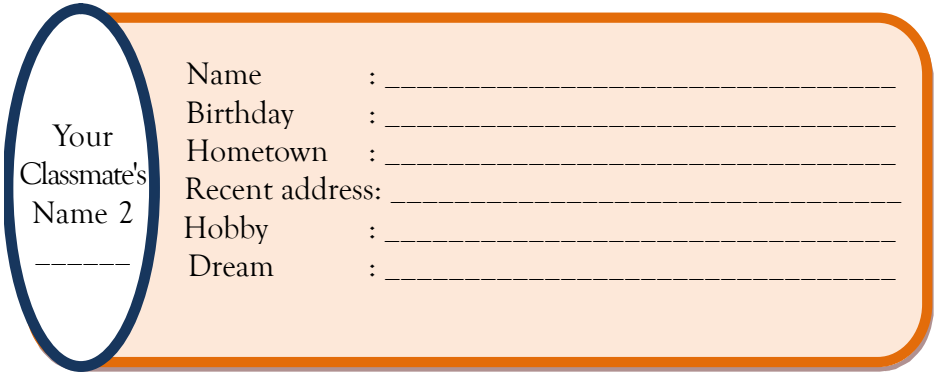
Now it is your turn to introduce yourself in front of the class by following this guideline.



Task 9

Interview your classmates by asking them to introduce themselves. Then write some information about your classmates in the following template.





Your Classmate's Name 3 _____

Name : _____
Birthday : _____
Hometown : _____
Recent address: _____
Hobby : _____
Dream : _____

"If we marry educational technology with quality, enriching contents, that's a circle of win."

Objectives

After completing this unit, the students are expected to master three language skills:

1. **Reading**
   - Students are able to comprehend the main ideas of the text.
   - Students are able to find explicit information of the text.
   - Students are able to find implicit meaning of the text.
   - Students are able to find the synonym of words related to the text.
   - Students are able to relate the information from the text to their real life.
2. **Writing**
   - Students are able to describe people.
3. **Speaking**
   - Students are able to describe people.

BIBLIOGRAPHY

AFP-JIJI, The Japan Times, Jul 25, 2013

Anonym. 2010. Nuclear Power. http://energyharvesting.mfs-skateboards.com/?page_id=24

Anonymous. 2003. Introduction to Robots. http://www.galileo.org/robotics/intro.html

Anonymous. 2010. Magnetic Fields and Eletric Fields. http://corrosion-doctors.org/Voltage/electromagnetic-def.htm

Anonymous. 2013. Nikola Tesla. https://www.pbs.org/tesla

Anonymous. 2014. Laser Lamp. http://www.newsourcetechnology.com/laser=lamp.htm

Anonymous. 2014. Types of Renewable Energy. http://www.renewableenergyworld.com/rea/tech/home

Anonymous. 2014. What's the best battery. http://batteryuniversity.com/learn/article/whats_the_best_battery

Anonymous. 2013. Wind Power. www.renewableenergyworld.com/rea/tech/wind-power

Bass, Devon. 2012. Waste to Watts: How Today's Garbage Can Be Tomorrow's Electricity. http://oilprice.com/Alternative-Energy/Renewable-Energy/Waste-to-Watts-How-Todays-Garbage-Can- Be-Tomorrows-Electricity.html

Bergman. 2007. Electricity and Magnetism. www.windows2universe.org

Blume, Steven W. 2007. Electric Power System Basic for the nonelectrical Professional. http://faculty.ccri.edu/jbernardini/JB-Website/ETUT1160/M01/0-ETUT1160-02-WP-ElectricPowerBasics.pdf

Doug Lowe. Electronics All-in-One for Dummies

G. Honsen and Team, 2013. Hydropower. Hydropower Book. Cambridge University Press.

Geno Jezek. Bioelectromagnetism

Government Office of Sweden. 2012. A New Biofuel from Algae. Environmental Technology - 13 Swedish Solutions. http://www.regeringen.se/content/1/c6/17/61/39/67ff1a10.pdf

Henricus Ismanthono. 2013. Geothermal energy: Abundant and eco-friendly, but neglected?. Jakarta
http://en.reset.org/knowledge/renewable-energy-environmentally-friendly-and-low-cost-energy-inexhaustible-sources
http://mriscans.cliniccompare.co.uk/mri-scanner-machines
http://www.electronics-tutorials.com/basics/electron-theory.htm
http://www.energysavingtrust.org.uk/Generating-energy/Choosing-a-renewable-technology/Solar-panels-PV
http://www.greenpeace.org/usa/en/multimedia/goodies/green-guide/in-your-home/electricity-lighting/
http://www.ieeeghn.org/wiki/index.php/Early_Microelectronics
http://www.scribd.com/doc/5368265/What-is-Electromedicine
Juergen Kolb, July 2009 (edited January 2013)
McGrayne. 2014. Electromagnetism. www.britannica.com
McMahon, Mary. 2014. What is hydroelectric power?
Nitin Nampalli. 2014. Batteries & Energy Storage,New technologies,Solar Choice News
POWERGRID International. 2013. Geothermal Energy Provides Health, Environmental Benefits
Soclof, Sidney. 2008. How Circuits Work. http://science.howstuffworks.com/environmental/energy/circuit.htm
Tamarra Kemsley.2013. Scientists Achieve Teleportation in Electronic Circuit for First Time
Zafar, Salman. http://www.bioenergyconsult.com/biomass-energy-resources-in-indonesia/
http://1.bp.blogspot.com
http://1.bp.blogspot.com
http://1.bp.blogspot.com/-36PImeVA78A/UCFljxynvrI/AAAAAAAAAQs/h0QkwUcCBPc/s1600/clase.jpg
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http://agamaislam.umm.ac.id
http://archive.icann.org/en/tlds/biz4/IntroductoryMaterialBiz.html
http://blog.weddingpaperdivas.com/wp-content/uploads/2010/12/Lotus-Pattern-Engagement-Party-Invitation.jpg
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http://cdn.images.express.co.uk/img/dynamic/11/590x/back-pain. gif-437580.jpg

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http://ceranity.files.wordpress.com/2011/08/20070511_transformer_bumblebee.jpg
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http://energyharvesting.mfs-skateboards.com/?page_id=24
http://forum.allaboutcircuits.com/image_cache/http.www.globalspec.comImageRepositoryLearnM ore20138BJTtransistor_0122104272e6dccd3400459eb19fff7eb26ecb52.png
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http://image.improve.com
http://image.shutterstock.com/display_pic_with_logo/483673/483673,1315336391,35/stock-vector-cartoon-man-complain ing-84164974.jpg
http://images.employmentcrossing.com

http://images.fineartamerica.com/images-medium-large/magnetism-andrew-lambert-photography.jpg
http://images.inmagine.com/400nwm/iris/jaggat-001/ptg00098732.jpg
http://images.sodahead.com/polls/003579497/4436560689_MarriedCoupleCartoon_xlarge.jpeg
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http://img.geocaching.com/cache/1f8cb566-44d0-4e4e-a057-76ff03a45d4c.jpg
http://img.tradeindia.com/fp/1/001/024/445.jpg
http://img1.wikia.nocookie.net
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http://karaagatha.files.wordpress.com
http://langitbirushop.com/wp-content/uploads/2013/09/Jam-Tangan-Guess-Wanita-Terbaru.jpg
http://learn.fi.edu/franklin/scientst/elecnow.html
http://lennysm.files.wordpress.com/2010/03/speech.gif
http://lennysm.files.wordpress.com/2010/03/speech.gif
http://listverse.com/2009/05/01/top-10-renewable-energy-sources/
http://media.dallasopera.org/about/dallasopera-map.png
http://mriscans.cliniccompare.co.uk/mri-scanner-machines
http://myhobbies.websiteforever.com/images/boy-clipart.jpg
http://new.medicine.com.my/wp-content/uploads/2005/07/hospital1.gif
http://nidesoft.com/forum/blackberry-vs-nokia/blackberry-vs-nokia.jpg
http://pad1.whstatic.com
http://ramblingsdc.net/Australia/WfWA/20060517_01r_Albany.jpg
http://resources.phrasemix.com/img/full/10-26-Feel-obligated.jpg?__SQUARESPACE_CACHEVERSION=1319688329473
http://s1.reutersmedia.net/resources/r/?m=02&d= 20100618 &t = 2&i=132741987&w=580&fh=&fw=&ll=&pl=&r=img-2010-06-18T070843Z_01_NOOTR_RTRMDNC_0_India-494096-1
http://s3files.core77.com/hack2work/h2w_king_bad2.jpg
http://sebandung.com/wp-content/uploads/2014/04/Tempat-Belanja-Barang-Elektronik-Di-Bandung.jpg

http://shahriar08.files.wordpress.com/2008/11/kids-study-cartoon.jpg
http://shiningallspark.web.id
http://somewhatnerdy.com/wp-content/uploads/2011/10/robot.jpg
http://sr.photos2.fotosearch.com/bthumb/CSP/CSP423/k4233516.jpg
http://sr.photos3.fotosearch.com/bthumb/IMZ/IMZ104/vga0011.jpg
http://static.ddmcdn.com/gif/nuclearplant1.jpg
http://static.emedco.com
http://static.panoramio.com
http://static.thefullsignal.com/sites/knowyourcell/files/styles/gallery_wide/public/wraparound.jpg?itok=gDjoD66p
http://static4.businessinsider.com/image/53320b4aeab8ead42c0df928/7-brilliant-strategies-marissa-mayer-used-to-shake-up-yahoo.jpg
http://t0.gstatic.com
http://t0.gstatic.com
http://t1.gstatic.com
http://t1.gstatic.com
http://t1.gstatic.com
http://t1.gstatic.com
http://t1.gstatic.com
http://t2.gstatic.com
http://t2.gstatic.com
http://t2.gstatic.com
http://t2.gstatic.com
http://t3.gstatic.com
http://t3.gstatic.com
http://t3.gstatic.com
http://t3.gstatic.com
http://t3.gstatic.com
http://thetaylorconsultinggroup.com/wp-content/uploads/cartoon-business-man-02.jpg
http://thumbs.dreamstime.com
http://thumbs.dreamstime.com
http://timmaurer.com/wp-content/uploads/2013/02/01_Steve-Jobs_full.jpg
http://trewlyfe.files.wordpress.com/2011/04/scroll_ebook_9669s1.jpg
http://tripswithtots.files.wordpress.com/2013/11/staticballoons.jpg
http://twilightinsight.files.wordpress.com/2008/10/write-note21.jpg

http://upload.wikimedia.org
http://upload.wikimedia.org/wikipedia/commons/3/31/Mark_Zuckerberg_at_the_37th_G8_Summit_in_Deauville_018_v1.jpg
http://upload.wikimedia.org/wikipedia/commons/4/4b/Restaurant.jpg
http://upload.wikimedia.org/wikipedia/commons/7/76/LED_bulbs.jpg
http://upload.wikimedia.org/wikipedia/commons/7/79/Tesla_circa_1890.jpeg
http://upload.wikimedia.org/wikipedia/commons/9/90/Solar_cell.png
http://upload.wikimedia.org/wikipedia/commons/b/bd/Clinac_2rtg.jpg
http://upload.wikimedia.org/wikipedia/commons/b/bd/Dts_news_bill_gates_wikipedia.JPG
http://upload.wikimedia.org/wikipedia/commons/b/bd/Grebe_CR-12_Radio,_1920s.jpg
http://upload.wikimedia.org/wikipedia/commons/b/be/Carl_Sagan_Planetary_Society.JPG
http://upload.wikimedia.org/wikipedia/commons/c/cc/Castor_bean_in_distubred_area.jpg
http://upload.wikimedia.org/wikipedia/commons/c/cc/Castor_bean_in_distubred_area.jpg
http://upstatemetalrecycling.files.wordpress.com/2013/03/20ga-hd-servo-wire.jpg
http://us.123rf.com/400wm/400/400/archman/archman1007/archman100700297/7324912-modern-computer.jpg
http://us.cdn2.123rf.com
http://wp.streetwise.co/wp-content/uploads/2013/02/invitation.jpg
http://www.123rf.com/clipart-vector/explaining.html
http://www.alliantenergykids.com/EnergyBasics/AllAboutElectricity/000416
http://www.amusingplanet.com/2013/04/taum-sauk-hydroelectric-power-station.html
http://www.atmmachines.com
http://www.awarenessideas.com
http://www.billnye.com/about-bill-nye/curriculum-vitae/
http://www.blogcdn.com/www.dailyfinance.com/media/2012/10/blender-complain-435cs102612.jpg
http://www.bobvila.com/articles/how-to-install-a-dimmer-switch/
http://www.bobvila.com/articles/how-to-install-a-light-fixture/

http://www.body-tone.com/pics/BODYSTIM.JPG
http://www.bryantcomfortheroes.com
http://www.businesspundit.com
http://www.buydig.com/blog/wp-content/images/progressofawesome/television.jpg
http://www.christmasdesigners.com/blog/wp-content/uploads/2012/06/Clamp-meter-with-a-home-mad.jpg
http://www.clipartbest.com/cliparts/9iz/n7b/9izn7bAiE.jpeg
http://www.clipartlogo.com/free/student_2.html
http://www.clker.com/cliparts/y/3/q/N/m/W/agenda-hi.png
http://www.communication4all.co.uk
http://www.computermuseum.li/Testpage/CSIRACa.jpg
http://www.cooltanarts.org.uk/wp-content/uploads/2013/10/robot.jpg
http://www.drawingcoach.com
http://www.drwyckoff.org/wp-content/uploads/2011/06/a1_wyckoff-1_pp.jpg
http://www.duckduckgoose.com
http://www.dvorsons.com/jet-tech/images/f16dp-dishwasher.jpg
http://www.easypacelearning.com/images/givingdirections.jpg
http://www.eco-business.com
http://www.ecodiy.org/images/solar%20panel.JPG
http://www.emirates-careers.com/sites/default/files/job-interview-tips_0.jpg
http://www.englet.com/order
http://www.englishdaily626.com/summary.php?134
http://www.englishdaily626.com/summary.php?135
http://www.english-test.net/images/toeic/013.jpg
http://www.engr.psu.edu/newsdocs/E%20E__2437a720-0__b9eba912562f435cb.jpg
http://www.eoionline.org/wp/wp-content/uploads/classroom.jpg
http://www.esl-lab.com/dir1/map1.GIF
http://www.fsec.ucf.edu/en/consumer/solar_electricity/basics/images/F1_HowCellWorks_401x217.gif
http://www.furnitureinfashion.net/images/modern-plasma-tv-stands-black-EH708-BL.jpg
http://www.fvbenergy.com/wp-content/uploads/2012/12/renewable-energy-chart.jpg
http://www.gadgetspeak.com/aimg/557727-dualit-dab-lite-radio-l.jpg

http://www.glassdoor.com
http://www.goaeasy.com
http://www.google.com
http://www.homesolarinfo.com/images/panels-on-roof.jpg
http://www.incolor-inc.com
http://www.indianist.com/wp-content/uploads/2013/06/Tips-for-Maintaining-Air-Conditioners.jpg
http://www.instructables.com/id/how-to-make-paper-transistor/
http://www.jawapower.co.id/slide/DSC_0221ed-rez_t.jpg
http://www.kh-uia.org.il/En/SupportIsrael/TechnologyandHighTechLeaders/Pages/Bio-Fuel.aspx
http://www.letters.org/proposal-letter/proposal-letter-for-training.html
http://www.lifeunderthelights.com
http://www.manateememorial.com/sites/manateememorial.com/files/patient_cart_front_no_instruments_0240_0.JPG
http://www.mgsenergy.com
http://www.michaelpeggs.com
http://www.momlogic.com
http://www.mrmediatraining.com/wp-content/uploads/2012/07/Excited-Speaker.jpg
http://www.mysafetysign.com
http://www.orau.org/ptp/collection/consumer%20products/electrontubesblack.jpg
http://www.pcc.org.uk/assets/10/making_a_complaint_image.gif
http://www.physicstoday.org/jobs/profiles/electrical-engineering-jobs
http://www.picgifs.com/graphics/a/agenda/graphics-agenda-407852.jpg
http://www.picturesof.net/_images_300/A_Black _and _White_Cartoon_Gossips_Chin_Waggin g_on_a _Sofa_Royalty _ Free _ Clipart_Picture_100709-202632-314053.jpg
http://www.planet-science.com/umbraco/ImageGen.ashx?image=/media/9858/marie_curie.jpg&width=600&constrain=true
http://www.prlog.org
http://www.prodryers.com
http://www.proprofs.com/quiz-school/user_upload/ckeditor/speech-1%283%29.gif
http://www.qrg.northwestern.edu
http://www.roarlocal.com.au/wp-content/uploads/2013/08/websites-on-mobile-phones-300x225.jpg

http://www.robo-toys.com
http://www.robotshop.com/blog/en/files/Cooking-Robot.jpg
http://www.robotslab.com/Services/ImageHandler. ashx? Media Binary GUID=%27f54b6e4c-c3d6-4ae0-bd24-0ae47d6484ab%27
http://www.robotslab.com/Services/Image Handler. ashx? Media BinaryGUID=%27f54b6e4c-c3d6-4ae0-bd24-0ae47d6484ab%27
http://www.rondatoday.com/wp-content/uploads/2009/10/uk-electrical-appliances-spain.jpg
http://www.sample-resignation-letters.com/p381305-writing-a-business-proposal-letter-with.cfm
http://www.seia.org/policy/solar-technology/photovoltaic-solar-electric
http://www.signstoyou.com
http://www.siliconray.com/media/catalog/product/cache/1/image/9df78eab33525d08d6e5fb8d27136e95/2/s/2sc5200.jpg
http://www.solarfeeds.com/wp-content/uploads/panels-sun-shine.jpg
http://www.stepbystep.com/wp-content/uploads/2013/01/How-to-Smile-During-a-Speech.jpg
http://www.successfulreader.com/community/cfs- filesystemfile.ashx/__key/CommunityServer.Blogs.Components.WeblogFiles/9d227a68-7172-42dc-bd11-47ec709a8e18/group-of-students-writing.-pencil-drawing.jpg
http://www.talkmen.com/gfx/files/A00693/electric.jpg
http://www.technews24h.com
http://www.thedynamicturnaround.com/herbal%20medicine_white.jpg
http://www.thejakartapost.com/files/images2/p04-b_0.img_assist_custom-400x300.jpg
http://www.timlo.net/baca/68719504969/jelang-kemarau-waduk-gajah-mungkur-mulai-berhemat/a
http://www.tipsontalking.com
http://www.tipsontalking.com/wp-content/uploads/2013/05/job-interview.jpg
http://www.tokojadi.netd2eosjbgw49cu5.cloudfront.ne
http://www.totaljobs.com
http://www.totaljobs.com
http://www.umm.ac.id/files/image/robotumm.JPG
http://www.umm.ac.id/images/image_headmenu/mhs_alumni.png
http://www.uobkupartnership.talktalk.net

http://www.uvisor.com
http://www.vectors4all.net/preview/science-fiction-illustration-clip-art.jpg
http://www.vocabulary.cl
http://www.wikihow.com/Prepare-Used-Cooking-Oil-for-Biodiesel
http://www.wikihow.com/Use-a-Washing-Machine
http://www.yasour.org
http://www.yohanessurya.com/images/pic_01.jpg
https://c2.staticflickr.com
https://hwb.wales.gov.uk
https://nationalcareersservice.direct.gov.uk
https://www.dom.com/dominion-virginia-power/customer-service/your-service/images/forestry-distribution.jpg
https://www.kickstarter.com
https://www.kickstarter.com/projects/625327275/extremely-durable-battery-pack-for-smartphones-and
Impactfactory.com
madskillsvocabulary.com
www.docstoc.com
www.gograph.com
www.officeclipart.com