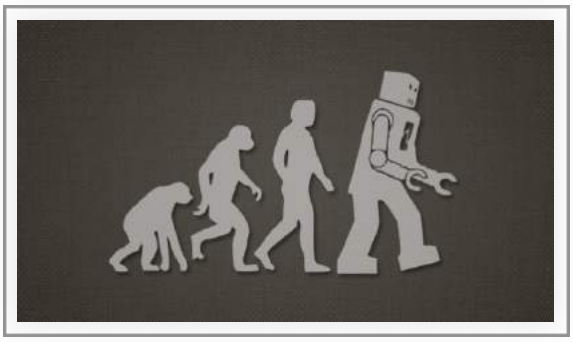
Lesson Plan © Easy Access English

"KNOW IT ALL"

Predicting the Future.



EAE Learning objectives for this lesson

- Future tense review and practice.
- Practice discussion and debate in a group.
- Learn new vocabulary about a topical issue.

Activity One - With your partner try to ***find definitions*** for the following terms:

- Artificial intelligence.
- Algorithms
- Big Data
- Smart glasses
- Machine Learning
- Know it all



Activity Two - ***Robotic***.Let's see if you can walk and talk like a robot..

Activity Three - ***Future Review***

Future simple - Used for predictions, spontaneous reactions and promises
Future with 'going to' - For plans events and things you see are about to occur
Future perfect - Used for what will have been completed by a future moment in time
Future continuous -For what will be happening at a specific moment in time in the future
Present continuous for the future - Used for scheduled events in the future

Activity Four - ***Futuristic***.

Answer these **questions** using the future tenses - **use full sentences** in all of your answers and **identify the future tenses used** in each question.

1.Do you think that Robots will be used in people's homes in the future?
2.Do you think that Robots will take over people's jobs?
3.Are you going to use any artificial intelligence today?
4.Are you going to supply data to a company today?
5.Are you planning to talk to 'Siri' today?
6.By when do you think we will have developed Robots capable of doing housework?
7.Do you think that we will all be using driverless cars in the year 2025?
8.In your opinion will computers soon turn into annoying know it alls who are able to correct us and interrupt us when we say something wrong or make a wrong decision?
9.Will you be using a GPS this week at all?
10.Do you think that your GPS will correct you on your choice of route or offer you advice about decisions you should take on your route?

Activity Five - ***Sleeper***. (A '70's '***futuristic***' story about a man who wakes up after a 200 year sleep).

Watch the extract from the start of **Woody Allen's 'Sleeper'.**
http://www.youtube.com/watch?v=t1shIHF0KJs
From 2nd minute. ***Read*** *the questions* ***before*** you watch the film extract.



1.What futuristic things did you see in this film extract?
2.When was the 'subject' frozen?
3.What does the man have covering his head and feet?
4.What was the man in when he was found?
5.Who admitted him for 'cryogenic immersion'?
6.Where does he expect to be waking up?
7.What does he eat?
8.What happens next?
9.How do the doctors explain Monroe's behavior?
10. Which moments did you find funny?

Activity Six: ***Read the article paying attention to your intonation and stress.***

Singularity: The robots are coming to steal our jobs

By Jane Wakefield22

If you worry that the robots are coming, don't, because they are already here. Artificial intelligence agents are already involved in every aspect of our lives - they keep our inboxes free of spam, they help us make our web transactions, they fly our planes and if Google gets its way will also soon drive our cars for us.

They are used in medicine, in law, in design and throughout automotive industry. And each day the algorithms that power away, making decisions behind the scenes, are getting smarter.

It means that one of the biggest quests of the modern world - the search to make machines as intelligent as humans - could be getting very close.
Artificial intelligence could overtake human intelligence in the mid-2020s.

Chinese company Hon Hai, the world's largest contract electronics manufacturer, has announced it intends to build a robot-making factory and replace 500,000 workers with robots over the next three years.

Author and documentary-maker James Barrat is so worried about artificial intelligence that he has written a book about it. 'Our Final Invention' examines whether the increasing domination of artificial intelligence is going to mean the end of the human era.

There is a buzz around robots and artificial intelligence at the moment. Google* has just bought eight robotic firms as well as 'Deep Mind Technologies', while Facebook has its very own AI lab.Google robots could be very powerful, thinks Mr Barrat. "That's one route to human level intelligence. A high quality personal assistant wouldn't be just a smartphone - it'd have a humanoid body. Why

humanoid? So it can drive your car, use your tools, bounce the baby, act as your bodyguard if need be," he said.

If the rise of the robots is inevitable then it is also a logical step that humans will eventually be eliminated from the decision chain entirely, meaning AIs will be controlling other AIs.
That was already happening in our laptops and computers, said Mr Jacobstein.
"Anti-virus software is basically AI techniques that is being used to detect other AIs that we call viruses and worms," he said.

The only way that humans will keep up with the robots is to become more like them.
"Our brains haven't had a major upgrade for 50,000 years and if your laptop or smartphone hadn't had an upgrade in five years you might be concerned about that,".

Already we have access to AI's such as Siri and Google Now and are pretty much constantly connected to the web via our smartphones, so it isn't so much of a step to imagine a future where silicon is embedded in our skulls. And it could be the only way for us to keep up with the robots.

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*British Neuroscientist Demis Hassabis set up "DeepMind Technologies" just two years ago with the aim of trying to help computers think like humans.

His company has yet to produce anything commercially but Google has still paid £242million for its expertise in the pioneering field of artificial intelligence. It represents Google's biggest ever single acquisition in Europe.

DeepMind uses machine learning and systems neuroscience to build powerful general-purpose learning algorithms to predict the way people think and subsequently teach computers to think for themselves. Potentially these algorithms could be the next big breakthrough in technology.

Activity Seven - Listen to the radio program from Radio 4 and answer the following questions: *Pre-read the questions so that you know exactly what to listen for. Remember your objective is just to answer the questions, you don't have to understand everything!*

1.What's the basic idea of deep learning?

2.What is one of the first thing a computer has been able to see?

3.What does speech recognition let us do?

4.What have we been trying to build for decades now?

5.What is driving our latest advances?

6.Which tech giants are investing heavily?

7.What goes hand in hand?

8.What is one of the big driving forces behind all these advances?

9.What can smart glasses tell us?

10.What did you learn from this program?

Activity Eight - ***Life the Universe and Everything*** - **Class discussion** - Watch the extract and then - discuss the question: http://www.youtube.com/watch?v=aboZctrHfK8&noredirect=1

CLASS DISCUSSION: ***Do you think that humans will one day rely on computers to ask for answers to all their questions and will computers be intelligent enough to give answers? Will computers be annoying 'know it alls'? Here are some points to think about:***

- *Artificial intelligence is constantly improving thanks to the amount of data being created which is growing by 50 percent every year.*
- *Analytic algorithms for 'big data' now allow us to process data and analyze results from any source, including digital sensors placed on moving objects, geo-localization software and also images or video.*
- *Natural language processing and machine learning algorithms now mean that computers, like Siri, can answer questions that you ask them orally.*

Last Activity (At home or in class) - **Know It All** Here is a poem by **Pam Ayres**, a famous comic English poet. In it, she describes a 'Know It All'. Listen to her reciting her poem while you read it: **http://www.youtube.com/watch?v=Y4oydSZTAns&noredirect=1**

THEY SHOULD HAVE ASKED MY HUSBAND
by Pam Ayres

You know this world is complicated, imperfect and oppressed
And it's not hard to feel timid, apprehensive and depressed.
It seems that all around us tides of questions ebb and flow
And people want solutions but they don't know where to go.

Opinions abound but who is wrong and who is right.
People need a prophet, a diffuser of the light.
Someone they can turn to as the crises rage and swirl.
Someone with the remedy, the wisdom, and the pearl.

Well, they should have asked my husband, he'd have told them then and there.
His thoughts on immigration, teenage mothers, Tony Blair,
The future of the monarchy, house prices in the south
The wait for hip replacements, BSE and foot and mouth.

Yes, they should have asked my husband he can sort out any mess
He can rejuvenate the railways he can cure the NHS
So any little niggle, anything you want to know
Just run it past my husband, wind him up and let him go.

Congestion on the motorways, free holidays for thugs
The damage to the ozone layer, refugees and drugs.
These may defeat the brain of any politician bloke
But present it to my husband and he'll solve it at a stroke.

He'll clarify the situation; he will make it crystal clear
You'll feel the glazing of your eyeballs, and the bending of your ear.
Corruption at the top, he's an authority on that
And the Mafia, Gadafi and Yasser Arafat.

Upon these areas he brings his intellect to shine
In a great compelling voice that's twice as loud as yours or mine.
I often wonder what it must be like to be so strong,
Infallible, articulate, self-confident …… and wrong.

When it comes to tolerance – he hasn't got a lot
Joyriders should be guillotined and muggers should be shot.
The sound of his own voice becomes like music to his ears
And he hasn't got an inkling that he's boring us to tears.

My friends don't call so often, they have busy lives I know
But its not everyday you want to hear a windbag suck and blow.
Encyclopedias, on them we never have to call
Why clutter up the bookshelf when **my husband knows it all!**