



Task 1. Listening comprehension / 5 p.

(source: <https://learnenglish.britishcouncil.org/c1-advanced-listening/the-helix>)

1.	F
1.	F
2.	F
4.	T
5.	F

Task 2 Listening Comprehension 2/ 5p.

(source: <https://www.esolcourses.com/ielts/women-in-technology/women-in-technology-listening.html>)

1	A
2	B
3	B
4	B
5	C

Task 3 Reading comprehension 1/ 10 p.

Source: <https://learnenglish.britishcouncil.org/c1-advanced-reading/life-on-mars>

1	T	6	sulfur
2	F	7	startling/ astonishing
3	F	8	replenishing
4	T	9	release
5	T	10	milestone(s)

Task 4. Working with words 1/ 5 p.

1	TO
2	FOR
3	FOR
4	UP
5	UP

Task 5. Working with words 2 / 10 p.

1	DOMESTIC	6	TRANQUIL
2	SHRED	7	JAUNT
3	PROFFER	8	PUNTERS
4	PENCILLED	9	WARD
5	ABREAST	10	PRISTINE

Task 6. Language at work / 10 p.

1	a	6	c
2	b	7	b
3	a	8	b
4	c	9	a
5	a	10	c

Task 7. Word formation / 15 p.

1	deepened	9	imprecision
2	privatis/zed	10	restful
3	intrusive	11	outcry
4	convertible	12	solitary
5	oversight	13	precaution(s)
6	compliance	14	fatality
7	disrespectfully	15	unacquainted
8	Apparently		

Task 8. Transformations / 10p.

1	have a/any preference (as to/about)
2	even though people/critics/everyone/they gave/had given
3	only did the meeting drag on
4	great deal of work is required
5	came as no surprise to
6	to have been a misunderstanding about
7	must have been telling the
8	fell into the trap
9	difficulty/trouble (in) making ends meet without
10	gave her word that she would

Task 9. Technical PART A/ 15p.

1	diameter	9	plumb
2	dimensions	10	perpendicular
3	depth	11	diagonal
4	accurate	12	adjacent
5	measurement	13	intersect
6	vertical	14	circumference
7	span	15	cross-section
8	external		

Task 10. Technical PART B / 15p.

1	b	9	c
2	c	10	a
3	a	11	b
4	b	12	a
5	a	13	b
6	c	14	c
7	a	15	c
8	b		

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RECORDING ONE: THE HELIX

I'd like to turn now to the object which is the main point of this talk: the helix. This is a fascinating mathematical object which touches many parts of our lives. Movement, the natural world, the manufactured world and our genetic make-up are all connected to the shape of the helix.

A helix is a type of three-dimensional curve that goes around a central cylindrical shape in the form of a spiral, like a corkscrew or a spiral staircase. The helix is a very popular shape in nature because it is very compact. In fact, helices are sometimes referred to as 'nature's space saver'. In architecture too, the helix shape of a spiral staircase is an attractive option in buildings where space is very restricted.

The most renowned type of helix is probably the double helix of DNA, or deoxyribonucleic acid. DNA is made of two helices that curve around each other, a bit like a twisted ladder. DNA contains the genetic information or 'code' that determines the development and functioning of all known living things. The helix shape is a very efficient way to store a long molecule like DNA in the limited space of a cell.

There are different types of helices. Helices can twist clockwise, right-handed, or anti-clockwise, left-handed. An interesting experiment is

to hold a clockwise helix, such as a corkscrew, up to a mirror. The clockwise helix appears to become counterclockwise.

We can perceive examples of helices in many areas of our world. Spiral staircases, cables, screws and ropes can be right-handed or left-handed helices. A helix that goes around a cone is called a conical helix. Examples of conical helices are screws or the famous spiral ramp designed by the architect Frank Lloyd Wright in the Guggenheim Museum in New York.

Helices are also prevalent in the natural world. The horns of certain animals, viruses, seashells and the structure of plants, flowers and leaves can all contain helices. The human umbilical cord is in fact a triple helix.

With the discovery that the helix is the shape of the DNA molecule, it is not surprising that the helix is found in so many areas. It's one of the most natural shapes in nature.

Let's turn our attention now to the mathematical description of the helix. You'll need a pen and paper for the next part of the talk as I am going to give you some variables to write down. Take your time to notice the different ...

RECORDING TWO: WOMEN IN TECHNOLOGY.

Women in technology. Now that's something you don't see or hear about too often. It's a well-known fact that women are underrepresented in the fields of science engineering and tech. Only 8.5% of Silicon Valley companies have a female board director and just 2% of open-source developers are females. But why studies often cite education support and role models as the main reasons. At the launch of her code in San Francisco I spoke with some females about their experiences in the tech sector. I came to the valley four and a half years ago and I'm, you know, planning on starting my company and it was sort of out of the idea of trying to help other women who are already further along starting their companies. There's a lot of barriers to meeting investors. But also to getting feedback on your idea. You don't know if what you're building is actually worth your time and your effort.

There aren't that many women who start companies. You know, it takes a lot to start a company. you're basically giving up all your salary usually so you really have to have a high degree of confidence that you can really do it. I meet with about a thousand startups here and a small number of those relatively have women as co-founders or as part of the founding team.

We decided to look at women in technology in the Silicon Valley and we found some scary things such as only 4% of company raising money are led by women. I think there's been a lot of women building companies and working as entrepreneurs all this time and they go unnoticed often because they're not taking a traditional path – a venture fundraising. They're building their business and much more bootstrap way.

Now I'm not in a software industry, per se, even though we only do software investments. There are fewer women. The firms are smaller. So a lot of, the sort of, competitive forces you see among dominant males come forward in partner meetings. I think that that's you know that that's kind of an enduring challenge that there aren't that many women in tech but I think that that there's a big change that's coming and I think that's partly what we found through our study.

From my observations when I first came here, I was always the one or the second female at any networking event and now I'm seeing a change. I'm seeing more women come. Often when there is a woman in the room it's in a marketing role or public relations role and but that's changing. It's starting to change I think more quickly and that's very exciting to see.

According to a new report conducted in Silicon Valley by Orange the adoption of social media by young girls may reverse the long-standing absence of women in a male-dominated industry. In the past, this problem of women in tech and women in the STEM fields has been looked at in terms of historical factors or cultural factors, as well as, you know, what the government might do. But people haven't really looked at technology itself and what role technology plays. 70 percent of fifteen to seventeen year-old girls are on a social networking sites. Seventy five percent more girls blog than boys and forty five percent more girls create webpages than their counterparts.

There's new generation of young girls who were born after 1995 and they're used being digital natives and they use computers and technology and how they kind of are involved in storytelling and many the programs that they work with to create content, in a way, teach them how to program, as well. So I think that there's this big difference now with the younger generation of girls and their comfort level in terms of using technology as part of their everyday life.

And one way we helped was to host a Ruby on Rails workshop day where, for free, women can learn about Ruby on Rails programming language yeah we're the host of 85 women, who took the class during one day on Saturday. Site care was provided as well as food and just easy parking and we realized it was a waiting list. Every year we do the startup competition and it's open to startups in alpha or beta with one female co-founder anywhere in the world. so you can apply online you can add the opportunity to meet some high-profile investors you can learn more about your idea whether it's good or it needs improvement so I would encourage anyone who has some sort of idea to build it in time and apply next year.