



PROVINCIA DI TREVISO

CONCORSO PUBBLICO, PER TITOLI ED ESAMI, PER LA COPERTURA, A TEMPO PIENO ED INDETERMINATO, DI N. 1 POSTO DI DIRIGENTE TECNICO PRESSO IL SETTORE EDILIZIA, PATRIMONIO E STAZIONE APPALTANTE.

Prova orale - Lingua inglese

Traccia n. 1

Denmark has developed an idea for clean energy - an artificial island 80km off its western coast. It is expected to be working by 2033. This project should end Denmark's reliance on fossil fuels within three decades. Denmark is Europe's largest oil-producing country. The end of oil production will boost Denmark's green credentials. A professor of energy called the project, "a cornerstone in the green transition which will help facilitate the reduction of Danish CO2 emissions".

The result of an international effort, the island will be the size of 18 football fields and cost around \$34 billion. Much of the energy will come from wind farms. These will power three million homes and help make Denmark carbon neutral. The island should create a greener Europe. The professor said: "In the North Sea, we have tremendous potential for offshore wind.... That means we can actually shut down all European coal-fired power plants."

MARK THE FOLLOWING SENTENCES AS TRUE OR FALSE

1. Denmark is going to increase its oil production by 2033 T / ~~F~~
2. The clean energy produced will derive mainly from solar power T / ~~F~~
3. The wind farms will be installed in a natural island the size of eight football stadiums ~~T~~ / F
4. The North Sea offshore wind could greatly contribute to providing clean energy ~~T~~ / F



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Traccia n. 2

Airbus has unveiled big plans for the first zero-emission aircraft. It predicts its hydrogen-powered airplanes could be flying by 2035. Hydrogen is a move away from battery power, which many in the industry believe is the answer for carbon-zero airplanes. Batteries could be problematic for larger airplanes. Airbus said the switch to hydrogen needs "decisive action from the entire aviation ecosystem". This means redesigned airports and ways of refuelling.

Airbus showed three "ZEROe" designs and will select one of them. It said this was "a historic moment for the aviation sector". It added it would "play a leading role in the most important transition" the industry has ever seen. Hydrogen fuel has the potential to greatly reduce aviation's impact on the climate. Airbus said: "We can rise up to this challenge to scale up renewable energy and hydrogen for the sustainable future of the aviation industry."

MARK THE FOLLOWING SENTENCES AS TRUE OR FALSE

1. Airbus is going to launch a zero-emission aircraft powered by solar energy ~~T~~ / F
2. The switch to hydrogen fuel doesn't require any adaptation of the aviation system T / ~~F~~
3. At the moment, the zero-emission aircraft is only at design stage ~~T~~ / F
4. Hydrogen and renewable energy won't impact on the aviation industry in the future T / ~~F~~



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Prova orale - Lingua inglese

Traccia n. 3

Most people use the words Internet and Web as if they're the same thing. But, in fact, the Internet is much older than the Web, and they're two different things. The Internet was developed in the early 1970s by Vint Cerf and Bob Kahn. It is basically a huge network made up of smaller networks of computers that deliver packets of information to other computers.

The invention of the Web dates back to 1989, when Berners-Lee, a computer scientist working at CERN, in Switzerland, got frustrated by the fact that if you wanted information from the Internet network, you had to know exactly which computer that information was on and sit down in front of it and log in. Thus, he wrote a report that suggested a way of putting the Internet, domain names and hypertext together into one system. This 'imaginary information system which everyone can read' was later called the World Wide Web, presenting the information in the form of web pages.

MARK THE FOLLOWING SENTENCES AS TRUE OR FALSE

1. Even if they're used as synonyms, the Internet and the Web aren't the same thing ~~T~~ / F
2. The Internet is a single data centre containing all the information available in the world T / ~~F~~
3. The Web was invented at the end of the 1980s in the United States ~~T~~ / F
4. The Web made it easier to retrieve online information in the form of web pages ~~T~~ / F



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Prova orale -Lingua inglese

Traccia n. 4

A Dutch couple have become Europe's first tenants to live in a fully 3D-printed house, the first of five houses built for the 'Project Milestone' in the city of Eindhoven, the Netherlands. The house was inspired by the shape of a giant rock; its dimensions and shape would be difficult and expensive to build using traditional methods. It's the first 3D-printed home in Europe where people actually live.

The 94-square-metre home includes a kitchen and a living room that occupies over half of the floor plan, while a large double bedroom and bathroom occupy the rest of the home. These pieces were printed at a nearby printing facility and transported to the building site to be assembled, fixed to a foundation and fitted with a roof, windows and doors. The method is seen as a way to cut costs and environmental damage by reducing cement use.

MARK THE FOLLOWING SENTENCES AS TRUE OR FALSE

1. The first house totally designed by artificial intelligence was built in the Netherlands **T / F**
2. The house is only a showroom, but it's not actually inhabited by people **T / F**
3. The house includes a small living room that also serves as a bedroom **T / F**
4. The technique employed is more economical and environment-friendly than traditional methods **T / F**



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Traccia n. 5

The world's longest suspended footbridge has just opened in northern Portugal. The Arouca Bridge is 516 meters long and it hangs above the River Paiva, in the UNESCO-recognized Arouca geopark, an area famous for its nature tourism and outdoor activities.

Designed by the Portuguese studio Itecons, the bridge is made of steel cables, supported by two V-shaped concrete towers. Its structure is made of metal grids, offering unobstructed views of the green mountains and the valley below. The bridge reportedly takes about 10 minutes to cross and according to its official website, it is 'not for the faint of heart,' because it is 175 meters above the ground.

The Arouca bridge was inspired by Inca bridges built across valleys in the Andes Mountains, and has surpassed the former record-holder, a bridge 494 metres long, located in the Swiss Alps.

MARK THE FOLLOWING SENTENCES AS TRUE OR FALSE

1. The world's longest footbridge was built in an industrial area in Portugal T / F
2. The structure of the bridge is made of steel, metal and concrete T / F
3. Crossing the bridge is an experience suitable for everyone T (F)
4. The Arouca Bridge was inspired by the stone bridges built by the Romans T / (F)



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Traccia n. 6

The floor of Rome's Colosseum, where gladiators once fought against each other and wild animals, is set to be restored to its former glory. An Italian engineering firm won a €18.5 million bid to build a wooden, retractable arena floor that will allow visitors to see the majesty of the monument from its centre. The project is expected to be completed within the next two years.

The new, hi-tech stage will be able to quickly cover or uncover the underground networks below, allowing them to be protected from the rain or to be exposed. The new stage, which will also be able to host shows and events, is part of an ambitious project that will help the conservation and protection of the monument and improve its usability. The original floor was removed in the late 1800s, when archaeologists began to excavate the subterranean levels of the structure to reveal an impressive network of tunnels where gladiators and animals were held before rowdy events.

MARK THE FOLLOWING SENTENCES AS TRUE OR FALSE

1. The walls of the Colosseum will be restored by an Italian engineering firm ~~F~~ **T**
2. An Italian company sponsored the project to help the conservation of the monument **T** ~~F~~
3. A new movable floor will allow to host live events in the Colosseum ~~T~~ **F**
4. The original floor collapsed in the late 1800s because of an earthquake **T** ~~F~~