

# ENVIRONMENTAL SYSTEMS AND SOCIETIES STANDARD LEVEL

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**Is environmental systems and societies hard?** The course requires you to constantly make links between environmental systems and societies, and this can be challenging if you're more accustomed to subjects with clearly defined boundaries.

**What are environmental systems and societies in IB?** Environmental systems and societies (ESS) is an interdisciplinary course, encompassing both the sciences and individuals and societies and is offered at both standard level (SL) and higher level (HL).

**Is ess ib easy?** While ESS may be considered easier by some due to its interdisciplinary nature and practical focus, it's important to choose a subject that you are passionate about and will enjoy studying. For more resources, detailed guides, and study tips, visit RevisionDojo.

**What is the environmental systems and societies summary?** A rigorous and scientific course, ESS involves practical investigations but also develops an understanding of how socio-economic, cultural, and political factors help to shape environmental behaviour.

**Is it easy to score a 7 in ESS?** Achieving a perfect score of 7 in IB Environmental Systems and Societies (ESS) is no small feat. It requires a deep understanding of complex environmental issues, critical thinking skills, and the ability to apply knowledge to real-world situations.

**How to get a 7 in Ess IA?**

**What IB subjects should I take for environmental science?** Engineering: Recommend physics and one other science. Environmental Sciences: Recommend SL Environmental Systems and Societies and either Biology or Chemistry.

**How many units are in ESS?** The ESS course consists of eight compulsory units. All units focus on exploring and developing understanding of five key concepts: sustainability, equilibrium, strategy, biodiversity and environmental value systems.

**How to revise for ESS ib?** Contextualise with case studies The great thing about ESS is that the content you learn is very relatable to what you see around you. Reading the case studies in the textbook and finding your own examples of how the ESS concepts fit into your understanding of the world will help you master the content.

**What are the 5 hardest IB subjects?**

**Is ESS harder than Biology?** From an academic perspective, Biology SL is harder than ESS SL. ESS offers a slightly greater breadth of topics (since it is a hybrid of geography, environmental management, and biology) but at a lower difficulty and rigor than biology.

**What is the hardest subject to get a 7 in IB?** Attaining top grades in History HL can be particularly arduous, with only 3.7% of students achieving a score of 7. With a low rate of top grades, students often benefit from the guidance of an IB History tutor to enhance understanding and essay skills.

**What is ib environmental systems and societies?** What is ESS? IB Environmental Systems and Societies is a trans disciplinary subject. Topics range from investigating ecosystems and biomes like tropical rainforests and deserts to studying biodiversity and endangered species.

**What does environmental systems teach?** Description: In Environmental Systems, students will learn about different Earth systems, how they interact with each other, and how humans impact these systems.

**What are the four main environmental systems?** How do Earth's Main Systems Interact? The four spheres – the biosphere, lithosphere, hydrosphere, and

atmosphere – are constantly interacting. We can see some of these interactions daily during our normal routines.

**What is a good ESS score?** The Epworth sleepiness scale results range from 0 to 24. Results from 0 to 10 show average (normal) daytime sleepiness. A result under 10 may not be cause for concern or it could identify you have trouble sleeping (insomnia). A result from 11 to 24 indicates excessive (abnormal) daytime sleepiness.

**How hard is the IB ESS exam?** It's pretty easy, depending on which grade you're aiming for. It's easier to pass/get a 4 or 5 when compared to other sciences like physics or chemistry. However, upper grades can get a little tricky. The MS is pretty difficult to predict, since they get very particular with what's expected of you.

**What percentage is a 7 in ESS?**

**Why is it hard to get a 7 in ESS?** Environmental Systems and Societies (ESS) is a challenging subject within the International Baccalaureate (IB) program, requiring students to explore the intricate interaction between environmental systems and societies. Achieving a 7 in ESS is no easy feat, as it demands a high level of critical thinking and analysis.

**How do you score a 7 in ESS?** To achieve a Grade 7 in ESS, students need to demonstrate mastery of the material in a variety of ways. Group collaboration, scientific inquiry, environmental activism, interdisciplinary connections, and ethical considerations all factor into the final grade calculation.

**What happens if I fail my IA?** The Consequences of Failing Your IA Impact on Overall Grade: The IA contributes significantly to your final grade. A low score here means you must perform exceptionally well in your exams to compensate. This additional pressure can affect your performance, creating a vicious cycle of stress and underperformance.

**Is environmental systems hard?** Earning a bachelor's degree in either environmental science or environmental studies takes hard work but is also incredibly rewarding. You'll spend a lot of time in science and lab courses learning complex concepts and working with new materials and equipment.

**Is environmental studies a hard class?** AP Environmental Science is a high school course that teaches students about subjects such as Earth's natural systems, species, environments, and sustainability. Best Colleges considers it one of the harder AP (Advanced Placement) courses because of its pass rate: Only 51 percent of test takers passed in 2021.

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**Is environmental science a lot of math?** As such, a strong foundation in mathematics is essential for students pursuing degrees in this field. Whether you're calculating pollutant concentrations, analyzing data sets, or modeling environmental systems, math plays a crucial role in understanding and addressing environmental challenges.

**Who is the father of physical chemistry?** Wilhelm Ostwald is known as the father of physical chemistry.

**Who is the king of physical chemistry?** Answer. Akhilesh kumar kanther sir is god of physical chemistry. His way of explanation is just awesome He teaches every possible things and tries to provide best explanation for every concepts. EVEN NARENDRA AWASTHI SIR HAD WROTE A BOOK, but explanation of cocepts is more precisely given by akk sir.

**Who introduced physical chemistry?** The term "physical chemistry" was coined by Mikhail Lomonosov in 1752, when he presented a lecture course entitled "A Course in True Physical Chemistry" (Russian: ????? ?????????? ?????????? ??????) before the students of Petersburg University.

**Does physical chemistry have physics?** Physical chemistry deals with the principles of physics involved in chemical interactions. It examines: How matter behaves on a molecular and atomic level. How chemical reactions occur.

**Who are the two fathers of chemistry?** Several "Fathers of Chemistry" Another popular choice for the title of father of chemistry is Jabir ibn Hayyan, a Persian

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alchemist living around 800 who applied scientific principles to his studies. Other people sometimes known as the father of modern chemistry are Robert Boyle, Jöns Berzelius, and John Dalton.

**Who are the three fathers of chemistry?** Along with Lavoisier, Boyle, and Dalton, Berzelius is known as the father of modern chemistry. In 1828 he compiled a table of relative atomic weights, where oxygen was used as a standard, with its weight set at 100, and which included all of the elements known at the time.

**Who is the best teacher of physical chemistry on YouTube?** ALOK sir (ALK SIR) : He teaches Physical chemistry as well Inorganic. Since he has a lot of experience in this field , you can go with him . But try to make notes while studying from him unless you get bored specially in Inorganic.

**Who are the pioneers of physical chemistry?** Many of the figures traditionally found in such a history make appearances in her narrative, such as Robert Boyle, Antoine-Laurent Lavoisier, John Dalton, James Clerk Maxwell, Josiah Willard Gibbs, Ludwig Boltzmann, Gustav Kirchhoff, Hermann von Helmholtz, Jean Perrin, J. J. Thomson, J. H.

**Who is the god of calculus?** Why is Mohit Tyagi considered God of Calculus among JEE aspirants? Mohit Tyagi Sir is very famous for his maths and tricks and techs in it.

**Who is the father of physics chemistry?** The best-known Father of Physics is Isaac Newton, whereas the Father of Chemistry is Antoine Lavoisier.

**Who was a famous physical chemist?** Marie Curie is one of the most famous names in science. This is arguably in part due to the charity set up in her name, but her achievements in chemistry also merit recognition. In 1903 Curie became the first woman to win a Nobel Prize, for Physics.

**Is physical chemistry difficult?** You might be wondering why is physical chemistry so hard? Physical chemistry demands you to have a strong command of different subjects and concepts. It combines principles and theories of various branches of science, such as physics, quantum sciences, and chemistry.

**Is there math in physical chemistry?** Chapter 1 - Problem Solving and Numerical Mathematics Problem solving is the principal tool for learning physical chemistry. Many problems involve numerical calculations involving measurable quantities. A measured quantity consists of a number and a unit of measurement.

**Is physical chemistry easier than physics?** Some people find Physics easier because it involves mainly mathematical concepts and logic, while others prefer Chemistry due to its mix of concepts, memorization, and hands-on lab work.

**What are the five examples of physical chemistry?** Physical chemistry has many sub-categories of its own. The lists include thermochemistry, electrochemistry, chemical kinetics, spectroscopy, photochemistry, thermodynamics, and others.

**Who is the papa of chemistry?** Antoine Lavoisier is known as the father of chemistry as well as the father of modern chemistry. The terms can be used interchangeably for Antoine Lavoisier.

**Who is the mother father of chemistry?** Marie Anne Pierrette Paulze was a significant contributor to the understanding of chemistry in the late 1700s. Marie Anne married Antoine Laurent Lavoisier, known as the 'Father of Modern Chemistry,' and was his chief collaborator and laboratory assistant.

**Who is known as King of chemistry?** Because it is used to create so many other valuable compounds, Sulphuric acid (  $\text{H}_2\text{SO}_4$  ) is known as the “King of Chemicals.” Sulphuric acid is corrosive and has high acidic characteristics. It functions as an oxidizing and dehydrating agent at greater concentrations.

**Who is the god of chemistry in India?** The deity of all academic subjects (which includes Chemistry) in Hinduism is Goddess Saraswati as she is considered as the Goddess of Knowledge.

**Who is the guy who invented chemistry?** Antoine Lavoisier determined that oxygen was a key substance in combustion, and he gave the element its name. He developed the modern system of naming chemical substances and has been called the “father of modern chemistry” for his emphasis on careful experimentation.

**Who separated alchemy and chemistry?** Hence, the first scientist who made a clear distinction between Alchemy and Chemistry was Robert Boyle.

**Who is the father of physics chemistry?** The best-known Father of Physics is Isaac Newton, whereas the Father of Chemistry is Antoine Lavoisier.

**Who is the father of physical organic chemistry?** Friedrich Wöhler is known as the father of organic chemistry. He was a German chemist and was the first person to isolate many numbers of elements.

**Who is the father of biological chemistry?** Carl Alexander Neuberg (29 July 1877 – 30 May 1956) was an early pioneer in biochemistry, and he has sometimes been referred to as the "father of modern biochemistry".

**Who is the father of physical?** Newton, Galileo and Einstein have all been called "Fathers of Modern Physics." Newton was called this because of his famous law of motion and gravitation, Galileo for his role in the scientific revolution and his contributions on observational astronomy, and Einstein for his groundbreaking theory of relativity. Q.

**What was the most valuable trade item in ancient Oklahoma?** The most important trade item Oklahoma tribesmen had to offer was salt. The Great Salt Plains still exists today as a natural phenomenon.

**What are the three reasons Europeans were motivated to claim land in North America?** In addition to God and gold, another reason to explore the new world was that many European nations and their explorers wanted glory for themselves. Christopher Columbus was one of these European explorers searching for glory.

**What president announced that lands would be opened in Indian Territory?** After the passage of the Indian Appropriation Bill, President Benjamin Harrison made the declaration that on April 22, 1889, at 12 o'clock noon that the Unassigned Land in Indian Territory would be open for settlement.

**Who was the president that signed the bill authorizing the opening of unoccupied lands for settlement?** The legal basis for opening the Oklahoma District, now called the Unassigned Lands, came in 1889 when, in the U.S.

Congress, Illinois Rep. William Springer amended the Indian Appropriations Bill to authorize Pres. Benjamin Harrison to proclaim the two-million-acre region open for settlement.

**What is the oldest tribe in Oklahoma?** The next period, the time of Early Specialized Hunters, refers to our earliest well-documented inhabitants, known in the literature as the "Clovis and Folsom cultures." Clovis people occupied Oklahoma around 11,000 to 12,000 years ago, and Folsom occurred somewhat later, around 10,000 years ago.

**Who lived in Oklahoma 10,000 years ago?** Folsom people, the next known inhabitants of Oklahoma, also used the atlatl. Said to have lived some 10,000 years ago, Folsom people lived a co- operative existence. They hunted in groups and worked together for the common good of everyone in the group. Their primary source of food was the huge early bison.

**What nation had land that everyone wanted?** It was the United States of America. The colonists had to turn the colonies into states. They wanted to make one big country.

**Who were the first settlers in America?** The Pilgrims were separatist Puritans who fled persecution in England, first to the Netherlands and ultimately to Plymouth Plantation in 1620. Over the following 20 years, people fleeing persecution from King Charles I settled most of New England.

**Which country did not have a claim to land in North America?** The nations that claimed land in North America were Portugal, Netherlands, France, and Spain. However, the nation that did not claim land in North America is Portugal.

**What do they call Oklahoma?** Oklahoma is also known informally by its nickname, "The Sooner State", in reference to the Sooners, American settlers who staked their claims in formerly American Indian-owned lands until the Indian Appropriations Act of 1889 authorized the Land Rush of 1889 opening the land to settlement.

**Who were the first settlers in Oklahoma?** Humans arrived in the area now known as Oklahoma an estimated 30,000 years ago and organized into agriculture-based settlements around 2,000 years ago. Historians can trace the Wichita and the Caddo



back 2,000 years, and the Osage and Apachean-speaking people were likely in the area before Europeans arrived.

**Why were Indians moved to Oklahoma?** The expansion of Anglo-American settlement into the Trans-Appalachian west led to the passage of the Indian Removal Act in 1830, forcing all eastern tribal nations to move to new homelands west of the Mississippi River in the Indian Territory.

**What president approved the opening of the unassigned lands to the public?** President Benjamin Harrison, who took office on March 4, issued the proclamation on March 23, 1889, opening the unassigned lands. It is rumored the opening on the lands would be Saturday, April 20, 1889.

**What president passed the Homestead Act?** The Homestead Act of 1862 has been called one of the most important pieces of Legislation in the history of the United States. The act was signed into law by Abraham Lincoln after the southern states seceded.

**What president signed the bill that allowed the first land run?** President Benjamin Harrison signed the bill and the process to open the land began. The requirements to participate in the land run were easy given the time period. Single women were welcome to attempt a claim, as were African Americans.

**Who was the richest Indian tribe in Oklahoma?** Income mainly from grazing leases caused the commissioner of Indian affairs to call the Osages "the richest people on earth." Petroleum income did not become a monetary factor until after Osage allotment in 1906–1907. By the 1920s the commissioner's comment had come closer to the truth.

**What is the oldest black town in Oklahoma?** Tullahassee is considered the oldest of the surviving All-Black towns of Indian Territory. Located in Wagoner County five miles northwest of Muskogee, Tullahassee is one of more than fifty All-Black towns of Oklahoma and one of thirteen still existing.

**What is the oldest town in Oklahoma?** "The Oldest Town in Oklahoma." Colonel Matthew Arbuckle of the United States Army established Fort Gibson in 1824.

**What was the fiercest Indian tribe?** A great number of the indigenous Native American tribes had a capacity for ferocity and violence, but many historians have argued that among the most fearsome were: the Comanche, who lived in what is now Texas; the Apache, known for their stealth and warrior spirit; the Lakota, who fought against Custer at Little Big ...

**Are the Osage Indians still wealthy?** Many Osage stayed poor. The federal bureaucracy was culpable. This terrible history foreshadows a sad modern paradox. Far too many American Indians remain impoverished today despite living on reservations rich with natural resources.

**What is the oldest thing in Oklahoma?** Within the roughly 288-million-year-old recesses of a cave in Richards Spur, Oklahoma, paleontologists have found truly ancient fossil skin impressions that were preserved in a very unusual way.

**What is the most valuable trade item?** In 2021, the most traded exports and imports commodities global was machinery, with a value of 6.4 billion U.S. dollars for world exports and just over six billion U.S. dollars for imports. The value of global food exports for the same year was around 818 million U.S. dollars.

**What was the most valued item of trade during early exploration?** Early explorers such as Christopher Columbus set sail for Asia, hoping to bring back exotic spices, gold, and other goods to be sold at reasonable prices. Spices were valued because Europeans used them as flavoring for food, preservatives, and medicine.

**What was the most popular item in the fur trade?** The Demand for Beaver Hats  
The main cause of the rising beaver pelt prices in England and France was the increasing demand for beaver hats, which included hats made exclusively with beaver wool and referred to as “beaver hats,” and those hats containing a combination of beaver and a lower cost wool, such as rabbit.

**What was the most valuable trade item of ancient China?** Silk, first produced in China as early as 3,000 B.C., was the ideal overland trade item for merchant and diplomatic caravans that may have traveled thousands of miles to reach their destinations, says Xin Wen, a historian of medieval China and Inner Asia at Princeton University.

## Three Phase Motor Winding Calculation

**Question 1: What is the importance of calculating three phase motor windings?**

**Answer:** Accurate winding calculations are crucial for ensuring the proper functioning of three-phase motors. They determine the number of turns, wire size, and coil connections necessary to achieve the desired motor performance, such as torque, speed, and efficiency.

**Question 2: How is the number of turns in a coil calculated?**

**Answer:** The number of turns in a coil is determined by the following formula:

$$N = (V * F) / (4.44 * f * \phi * K_f * D_w * A_l)$$

where:

- N = Number of turns
- V = Line voltage (V)
- F = Frequency (Hz)
- $\phi$  = Flux density (T)
- $K_f$  = Winding factor
- $D_w$  = Average coil diameter (m)
- $A_l$  = Pole pitch (m)

**Question 3: How is the wire size selected for motor windings?**

**Answer:** The wire size is selected based on the current-carrying capacity required for the desired motor performance. The current rating of the wire is determined by factors such as the motor power output, load characteristics, and ambient operating conditions.

**Question 4: What are the different methods used to connect coils in three-phase motors?**

**Answer:** There are two main methods of connecting coils in three-phase motors: delta and star (or wye) connections. In a delta connection, the coils are connected in a triangle shape, while in a star connection, they are connected in a star shape. The choice of connection depends on the motor voltage and application requirements.

**Question 5: What tools and resources can assist in the calculation of three-phase motor windings?**

**Answer:** Various online calculators, software applications, and reference materials can assist in the calculation of motor windings. These tools provide pre-programmed formulas and allow for the input of specific motor parameters to obtain accurate results. Additionally, consulting with experienced electrical engineers or manufacturers can provide valuable guidance.

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