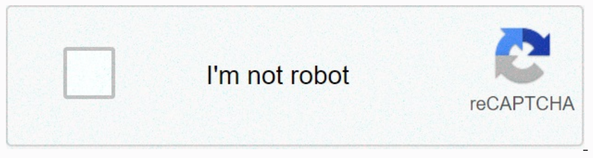

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Since this is a major topic, there are many physics subjects and phenomena to consider to last a lifetime. Therefore, choosing topics of physics either for a project, research or presentation can be quite demanding, and that's why we offer you this list of interesting physics topics. These cool physics topics will give you just the composure you need, to research paper, presentation, or exam. Without further ado, let's delve into the physics topics list prepared specifically for you! Physics Research Paper Topics As a student, you will have to write a research paper during your studies. Every student who offers physics has a number of physics research topics they find interesting. Sometimes you may have the freedom to choose your physics paper topics, and at other times, the professor can give you some physics topics for paper. If you have the freedom to choose physics projects topics, delight! While joy, though, remember that choosing physics topics for project or research can be difficult, but at least you can work in areas you most enjoy. There are a lot of physics research topics for high school. Are you ready to explore physics project topics? Let's go! The study by Kinetic Energy and Sports Science. The study of human energy consumption and nuclear physics. A study of the role of physics in the reduction of global warming Makes an atomic bomb: An exhaustive study of the principles of an atomic bomb's actions. How physics has evolved over the years and why it is essential in society. Physics Essay Topics Sometimes students may be required to write a physics essay on physics science subjects or subjects related to physics. If you are given the freedom to choose a topic, then you should choose interesting topics. Below are some physics topics that are cool and captivating. Roles physics plays in the healthcare industry. Timeline of 20th-century innovation that revolutionized physics. Other possible uses of the concept of magnetism. Magnetism. of Curies for Nuclear Physics? Roles Isaac Newton in physics as a science. How knowledge of physics has caused harm to communities. Why robots are essential in industries. The role of physics in turning the United States into a superpower. What do you consider to be the greatest invention in history? Galileo Galilei and the Church. The physics behind how rainbows occur. How physics has helped prevent head trauma in sports. Magnetic levitation and travel: Possible future applications. How Tesla revolutionized physics. High School Physics Subjects There are a lot of subjects in the physics high school curriculum that students are required to study. Sometimes these subjects of physics can include advanced physics subjects, primarily taken by people who want a career in physics or science. The subjects taught in high school cater to the SAT and some other exams. High school physics subjects are therefore embedded in the SAT physics topics below. SAT Physics Topics Are you looking towards taking SAT physics and would like to know where your focus should lie? This SAT Physics Topics list will serve as a guide to the essential areas of physics to cover! Mechanics Kinematics e.g. movement of projectiles Circular motion e.g. uniform circular motion Dynamics e.g. Newton's Laws Simple Harmonic Movement (SHM) e.g. pendulum Energy and Momentum e.g. power Gravity e.g. Kepler's love Electricity and magnetism Electric fields, forces and potentials, e.g. Coulomb's Law Circuit elements and DC circuit e.g. Ohm's law Capacitance eg parallel-plate capacitors Magnetism e.g. Lenz's Law Waves And Optics General wave properties e.g. , frequency Ray optics e.g. lenses Reflection and wrestling, e.g. Snell's Law Physical Optics e.g. Polarization Heat and Thermodynamics Thermal properties e.g. heat transfer Laws of thermodynamics e.g. internal energy Modern Physics Topics Quantum phenomena Quantum phenomena eg, astrophysics Physics GRE Subjects Are you looking towards taking physics GREs and would like to know which areas of physics to concentrate on? This physics GRE topics list will serve as a guide to the essential areas of physics to cover for your exam! Classical Mechanics Electromagnetism Optics and wave phenomena Quantum mechanics Atomic physics Special relativity thermodynamics and statistical mechanics Astrophysics Laboratory methods Specialized subjects e.g. nuclear and particle physics, condensed matter, mathematical methods, computer applications Physics IA subjects These physics IA subjects will help you write an excellent paper! What is the effect of the temperature of spring constant of a spring? What is temperature of the speed of sound in a solid? What is the effect of temperature on fluid vicosity? What is the effect of water content in wood on Young Modulus? What is the effect of the number of coils on the efficiency of an electric motor? Physics topics for presentation You may be required to give a presentation on various topics of physics. As a presenter, make sure that you choose interesting physics topics for presentation with amazing concepts! General relativity versus special relative. Touch screens Physics in fireweight Atmospheric optics Theoretical Physics Subjects A theoretical physicist tries to understand nature and the laws that govern her. They do not conduct a direct observation of nature or conduct experiments as practical or applied physicists. Theoretical physicists use mathematics to develop and refine physics theories. Here are some theoretical physics topics for your theoretical mind! Quantized Spaces Dynamics of Anyons Collision Distribution Functions: Gluon Quantum Tunneling General Relativity (1+1) Dimensions So here we are! 50 physics topics just for you! With this list of physics subjects, you will definitely compose a masterpiece. If you need help, please do not hesitate to contact our writing service. You've been browsing IB Physics IA ideas and you're getting frustrated. I fully understand that. Today I'm going to show you the same technique to choose your physics IA topic that I've learned to 2000+ other IB Physics students. In this article I will: Lead you through a 4 step process on how to choose your perfect IB Physics IA Subject in under 15 minutes. Give you a list of excellent (and terrible) research questions Give you 45 BRILLIANT IB Physics IA ideas at the end of this article too.sound good? Let me guess... You've heard this rumor......? You're not supposed to do your IB Physics IA on a topic that someone else has done already. Let me ease your concerns here... You don't have to be original Every year there are about 25,000 IB Physics students and each student will submit an IA. Everyone's IA must be within the framework of the IB Physics curriculum. so it is virtually impossible to get a project that is completely original. Step 1: Select a general area of interestKned do not think about this step. Ask yourself the following question: Has any topic sparked my interest in recent physics lessons? Do I have any notable hobbies or passions? Have I seen any TV shows (or YouTube videos) that have sparked my interest? Let me give you a few examples. Example 1I am almost 40. I know - I can't believe it either - I look so youthful! I still remember a lesson about geostationary satellites from school. Just because it's funny... here is a picture of me at school 20 years ago:(Can you find me in the picture?) In class, we calculated the height of the geostationary satellite and discussed the benefits of using them for communication. My teacher told me that in 1950 - there were no satellites in orbit. But as science progressed more satellites were launched in this low orbit for fuel or need for communication and GPS. I was fascinated by the idea of space junk and I still am. I mean - check this out. This is an artist's impression of how the number of satellites in geostationary orbits has increased over the years. Most of this is now non-operational and complete junk! So in this case my general topic of interest would be: geostationary satellitesExample 2As you've seen above, I get about 3-4 emails a day from IB physics students asking for physics IA ideas. One student couldn't think of anything that he had found interesting in any of his physics lessons. Boy! That teacher must have been boring! But he liked footballSo in this case, his general topic of interest would be: football Here are some interesting topics of general interest: Bungee JumpingSuper MoonsDoppler effectsExoplanetsResonance in a wine glassDepth and buoyancy forcePendulum dimmingand so on ... Use the free tutorial and workbook to jot down your ideas hereSTEP 2: Choose a slightly changeable Variable X (Independent Variable) To get big marks in your physics IA, you need to have a focused research question. This will be in the following format:How does Variable X affect variable Y? We start with Variable X, which is the independent variable that you change as part of your survey. It should be an easy forum variable on your subject of interest. If you choose football, then it is easy to change the following thing about a football: Pressure of a footballAngle of the kick of a footballRadius of a footballDead the following variables are easily changeable in physics. Do any of these relate to your general topic of interest? Choose one of these for your Variable X:MassDistanceAnglePressureRadiousVolumeTemperatureHeightPowerExtensionTimeFrequencyCross section areaCurrentVoltageWavelengthDensityUse the free tutorial and workbook to note your ideas hereROOKIE ERROR! Variable X must be something that can be measured on a scale (e.g. time, mass, length, pressure, temperature). Do not select separate properties (e.g. material type, fruit type, etc.) Step 3: Select an Easily Measurable Variable Y (Dependent Variable)Variable Y is the dependent variable that changes as a result of changing variable X. Your variable Y (dependent variable) should be easily measurable. Let's stick to the example of football. Things that can be easily measured about a football are: Rebound height of a footballRange of a footballTerminal speedDe the following variables are easily measurable in physics. Do any of these relate to your general topic of interest? Select one of these for your variable Y:Terminal Of projectileRebound heightVelocityePowerInitial accelerationTimeTimeTimeCurrentResistanceFrequencyUse the free tutorial on IB Physics IA Ideas and workbook to jot down your ideas herROOKIE ERROR! It must be easily undetectable! (e.g. frequency, resistance, rebound height, etc.). The internal energy of a gas is impossible, the period of a fly wings is impossible too!) Step 4: Write down Your Research QuestionHow to Do.... (your variable X)... Affect... (your variable Y)? It's as simple as this! Write down your research question and make sure it makes sense. Football ExamplesHow does the pressure of a football rebound affect height after a bounceHow does the angle that a football is kicked affect football's reach? How does a football's radius affect football's terminal speed? How does a football's radius rebound affect the height of a football after onebounce? How does the angle of a football kick affect the rebound? ROOKIE ERROR! Make sure you can predict roughly what might happen. I know that decreasing pressure in a football will reduce rebound height. So I have a pretty good idea that this is going to work. The best studies are able to predict the mathematical relationships between the variables. This will be your challenge in the Exploration section....! So.... you have your study research questions, but is it any good? Extra Tip: Focusing only on a Variable XYour study will be great if you choose a well focused research question. Do not include two or three related studies in one laboratory report. Poor Research Question: How does volume and radius affect the resistance of electrical kit? This research question means that two sets of data will be needed. The resulting study will lack the depth of analysis needed to achieve high marks. Extra Tip: Focus only on related physicsConsider this research question: How does temperature affect the coefficient of resistution of a tennis ball? This study would be nonsense if it contains only two pages on the history of tennis. But if you show an innovative method, explain the relevant background theory, and write an interesting report – you can earn full grade!45 BRILLIANT IB Physics IA Ideas [UPDATED 2020] How does temperature affect spring constantly of a spring? How does the temperature affect the speed of sound in a solid (or liquid)? How does it affect cross-sectional area in a football terminal speed? How does the diameter of a string affect the basic frequency? How does the sugar concentration affect the water refractive index? How does the temperature affect the viscosity of liquids? How does the length of a violin/guitar string maintain the time of the violin/guitar string after being picked with a constant force? How does the temperature affect the range of a Band? How does the temperature affect a battery's internal resistance? How does the angle of rotor blades affect the lifting power of a toy helicopter? How does the number of coils affect the efficiency of an electric motor? How does temperature affect a transformer's efficiency? How does the magnet's magnet affect the efficiency of the magnet? How does the temperature of a copper wire affect the Young Modulus? How does the concentration of salt in water affect the specific heart capacityHow does the cross-sectional area of a sail on a toy boat affect the initial acceleration? How does the temperature affect the return of a bouncing ball? How does the cross-sectional area of the map affect linked to a vibrating mass displacement of the mass after twenty oscillations? How does a football's radius affect the impulse of football when it's kicked? How does the mass added to an inflated balloon affect the terminal speed of the balloon? How does the width of rotor blades on a paper helicopter affect the terminal speed of a paper helicopter? How does the paddle area of a water wheel affect the efficiency of the water wheel when converting to electrical energyHow does the angle of the first release of a pendulum affect the subsequent calculation of 'g' from the pendulum? How does the temperature of water in a wine glass affect the resonance rate of sound produced when the wine glass is hit and the rim begins to vibrate freely? How does the amount of water in a wine glass affect the resonance rate of sound produced when the wine glass is hit and the rim begins to vibrate freely? How does the temperature of fat affect the depth of the crater that occurs when a mass is dropped from a known height? How does the distance between glass panes in double glazing affect the rate of heat loss? How does the number of glass panes in double/triple/quadruple glazing affect the speed of heat loss? How does the cross-sectional area of the pipe in a siphon affect the volumetric flow rate of the water in the siphon? How does the height of a ramp affect the time it takes for a cylinder to roll the ramp down? How does the distance between two towers affect maintaining a flat metallic bar the vertical depression/case produced when a known mass is added? How does the width of a flat bridge affect the vertical depression/case produced when a known mass is added? How is the time period for oscillation of a solid ball on a curved track affected by the radius of the fixed ball? How does the temperature affect a permanent magnet's magnetic strength? How does the mass of dust covering a solar panel affect the efficiency of the solar panel? How does the mass of a block affect its recoil distance after being affected by a constant external force? How is the slit distance produced by a laser, depending on the distance from does the rubber temperature affect the coefficient of static friction between rubber and a surface? How does the temperature of a guitar string affect the frequency produced when it is plucked with a constant force and left to vibrate freely? How does the mass of a liquid affect the angle descended by the diff-racing waves when the liquid passes through a single slit in a ripple tank? How does the radius of a copper tube affect the time it takes for a magnet to fall through it? How does the resistance of a metal tube affect the time it takes for a magnet to fall through it? How does the temperature affect the viscosity of castor oil? How does the temperature of a lubricant applied to the bottom of a solid affect the coefficient of dynamic friction when the solid is pulled along a surface? How does the diameter of the coil on a battery affect the copper coil train speed of the train? Are you looking for Physics IA topics that you can perform at home? If so - check out this blog post on the GradePod website. Terrible IB Physics IA IdeasWhich is the best method to measure time? The Y variable (time) can be measured. The X variable is not defined. How do you define what the best method is? relative uncertainty? Accuracy? This study is far too harsh. How does the surface type affect static friction? The Y variable is measurable (static friction). The X variable discreetly (surface type). That means you'll have to plot a bar chart, which is bad for IB Physics.How Many Brands Are Perfect Research Questions Worth? The choice of your research question will have an effect of the brand you receive for the Personal Engagement section of the labeling schemePersonal engagement is worth 2 marks out of 24. This means that Personal Engagement is worth 1.7% of your final IB Physics Mark.Performing a study with a standard method and standard analysis, but in a thoughtful way usually earns a brand of Personal Engagement. Then you can choose a very standard study (without imagination at all!) and only be punished with one brand. By spending days agonizing over the perfect IA Subject, you are really only chasing 0.8% of your final IB Physics brand. Don't waste a lot of time and effort searching for an IA item – it's worth no more than 0.8% of your final brand. Also, Personal Engagement not only aces the quality of research issues; it looks at the flow and engagement throughout the report and is assessed holistically. Do you want full marks? Full brand of Personal Engagement is awarded only when a student demonstrates: Independent thinking, initiative or creativityPersonal importance, interest and curiosity in relation to research questionsPersonal input in the design or conduct of the studyA are only the most insightful and thoughtful studies get top marks in Personal Engagement. If you show a thorough and analysis, analysis, of the issues and a dedication to quality scientific work - then you can expect that full character! Lesson Learned: If you are agonizing over a topic - do not bother. Pick something quick. DON'T MAKE THAT MISTAKE!!!! Don't write a subtitle in your study called Personal Engagement and then post a comment like this: Examiners hate you writing artificial comments about your interests. If you use words like 'fascinated' and 'passionate' - the examiner will probably give you zero marks. The examiner will mark Personal Engagement holistically, which means that it is assessed throughout the report – not just in a section titled Personal Engagement.ConclusionI knows that finding a good Physics IA topic is difficult, but my 4-step plan described above will show you how fast and simple it can actually be. Just remember that your research questions should be focused and in terms of: How to do.... (your variable X)... Affect... (your variable Y)? Variable X is the independent variable and should be easily atableVariable Y is the dependent variable and should be easily measurable. You need to have an idea of what might happen. It would be even better if you knew if the variables were directly proportional, indirectly proportional, etc. Don't worry if you have chosen the same topic as someone else. If you are stuck - choose from one of the items above! Finally, don't make the same mistake that so many IB Physics students have made... Don't add the Personal Interaction section under title. PLEASE DON'T DO THAT!!! OK - if you need more help: Use the free tutorial and workbook to jot down your IB Physics IA ideas hereHope this helps

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