

CHEMICAL ENGINEERING FORMULA SHEET

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What formulas do chemical engineers use?

What are the basics of chemical engineering? Chemical engineering – deals with the application of physical science (e.g., chemistry and physics), and life sciences (e.g., biology, microbiology and biochemistry) with mathematics and economics, to the process of converting raw materials or chemicals into more useful or valuable forms.

Is chemical engineering a 9 5? Work environment However, engineers will also monitor or direct operations at industrial plants, refineries, and other large-scale manufacturing locations, as well as solving onsite problems. Most chemical engineers work on a full-time, 9-to-5 schedule.

What is the code for chemical engineer? ANZSCO 233111 - Chemical Engineer.

Do chemical engineers use C++? All programs in the book are written in the three most popular languages (C, C++, and MATLAB) currently used in the chemical engineering curriculum and in industry.

Is chemical engineering heavy on math? Chemical engineering students need to start with a strong foundation in mathematics because engineering relies heavily on mathematical principles, and chemistry employs mathematics as well, like when balancing chemical equations.

Is chemical engineering difficult? Chemical engineering is a diverse and complex field that integrates principles from chemistry, mathematics, and engineering to

create innovative solutions for various industries. The coursework is demanding, requiring a high level of proficiency in chemical processes, process control, mathematics, and biotechnology.

What are 5 things chemical engineers do?

Who is a famous chemical engineer? David J. O'Reilly, Chairman and CEO of Chevron, is a chemical engineer. Linus Pauling, who won the Nobel Prize in Chemistry in 1954 and the Nobel Peace Prize in 1962, was a chemist and chemical engineer. Lee Raymond, a former Chairman and CEO of ExxonMobil, is a chemical engineer.

What kind of math do chemical engineers use? As an engineer you have to adapt to solve problems. You use algebra for equations of state and mass transfer problems. You use calculus for problems of compression and modeling systems. Trigonometry is useful in basic physical problems.

What are the 4 types of chemical formulas? There are different types of chemical formulas and each type gives us different information about a chemical substance. The different types of chemical formulas include: molecular, empirical, structural and condensed structural formulas.

What are the common formulas used in engineering? Some commonly used engineering formulas include Newton's second law ($F=ma$), Ohm's law ($V=IR$), Kirchhoff's laws for electrical circuits, Bernoulli's equation for fluid dynamics, Hooke's law for elasticity ($F=kx$), and Coulomb's law for electrostatic force.

Do chemical engineers use calculus? As a chemical engineering student, you will apply calculus in other courses such as Process Control, Heat Transfer and Thermodynamics.

What is pragmatic language learning? Pragmatic language refers to the social language skills that we use in our daily interactions with others. This includes what we say, how we say it, our non-verbal communication (eye contact, facial expressions, body language etc.) and how appropriate our interactions are in a given situation.

What is a simple definition of pragmatics? Pragmatics is a branch of linguistics, which is the study of language. Pragmatics focuses on conversational implicature, which is a process in which the speaker implies and a listener infers. Simply put, pragmatics studies language that is not directly spoken.

What does pragmatics refer to in the study of language? In linguistics and related fields, pragmatics is the study of how context contributes to meaning. The field of study evaluates how human language is utilized in social interactions, as well as the relationship between the interpreter and the interpreted. Linguists who specialize in pragmatics are called pragmaticians.

What are the four types of pragmatics?

What is an example of pragmatic learning? The idea of practical learning is that education should apply to the real world. For example, if a math teacher wants to teach students how to calculate square footage, a lesson on measuring for carpet in an actual physical space has real-life meaning and application.

What are 3 major concepts of pragmatics? Some of the main theories in pragmatics are the Co-operative principle and Grice's Four Maxims, Politeness theory, and Conversational implicature.

What does pragmatic mean for dummies? A person who is pragmatic is concerned more with matters of fact than with what could or should be. A pragmatic person's realm is results and consequences.

What is an example of teaching pragmatics? Teaching the pragmatics of language: Role play. Act out a similar situation in a different context. For example, greeting different people at the airport; telling different people you are feeling unwell; explaining to different people that there is a fly in your meal.

What is a pragmatic approach in simple words? A pragmatic way of dealing with something is based on practical considerations, rather than theoretical ones. A pragmatic person deals with things in a practical way.

What is pragmatism in simple terms? Pragmatism is a way of dealing with problems or situations that focuses on practical approaches and solutions—ones

that will work in practice, as opposed to being ideal in theory. The word pragmatism is often contrasted with the word idealism, which means based on or having high principles or ideals.

What is an example of a pragmatic person? If you're pragmatic, you're practical. You're living in the real world, wearing comfortable shoes. If you're dogmatic, you follow the rules. You're living in the world you want, and acting a little stuck up about it.

What is the purpose of pragmatics? Pragmatics outlines the study of meaning in the interactional context. It looks beyond the literal meaning of an utterance and considers how meaning is constructed as well as focusing on implied meanings.

What is an example of pragmatics in language? For example, when you're ready to leave someone's house, you likely don't say "I'd like to leave now, so let's end this conversation." Instead, you'll employ a pragmatic strategy by saying something like "Well, it's getting late..."

What are the 7 pragmatic functions of language? These functions are: instrumental, regulatory, interactional, personal, imaginative, representational, and heuristic. These functions offer a comprehensive framework for analyzing the diverse purposes and uses of language in communication.

Why are pragmatics important in language teaching? Pragmatics is an important part of learning language because it helps learners to avoid miscommunication and to communicate as they wish across cultures and languages.

What is an example of a pragmatic method in real life? Pragmatism is described as a way of thinking that focuses on finding practical solutions to problems. It encourages kids to think about what actually works in the real world. Using the example of solving a puzzle, a pragmatic approach would involve trying different puzzle pieces and observing which ones fit together.

How can you apply Pragmatism in your daily life?

What are examples of pragmatic language skills? Pragmatic language skills include: - Taking turns in conversation - Listening and speaking - Using the appropriate volume, speed, intonation and body distance. - Talking about a topic of

interest - Introducing a topic, being able to maintain and end conversations.

What is the main focus of the study of pragmatics? Pragmatics is an important branch of linguistics. It helps us look beyond the literal meaning of words and utterances and allows us to focus on how meaning is constructed within context.

What is the basic principle of pragmatics? Principles for pragmatic inquiry These principles are (1) an emphasis on actionable knowledge, (2) recognition of the interconnectedness between experience, knowing and acting and (3) a view of inquiry as an experiential process.

What are speech acts in pragmatics? This theory is part of the field of pragmatics, which is the study of how language is used in a social context. A speech act is any utterance that serves a function in communication. For example, speech can be used to make statements, ask questions, apologize, describe, or persuade, among many other uses.

Which is an example of learning the pragmatics of language? Teaching the pragmatics of language: Role play. Act out a similar situation in a different context. For example, greeting different people at the airport; telling different people you are feeling unwell; explaining to different people that there is a fly in your meal.

What is the pragmatic approach to learning? Pragmatism is an educational philosophy that says education should be teaching students the things that are practical for life and encourages them to grow into better people. Many famous educators including John Dewey, William James were pragmatists.

What is a pragmatist learning style? Pragmatists - Pragmatists are keen on trying out ideas, theories and techniques to see if they work in practice. They search out new ideas and take the first opportunity to experiment with applications.

What is the pragmatic approach to language teaching? Pragmatic Approach English language teaching should be based on the cultural dimension because in this learning, ideas are expressed about problems related to science, technology and or culture that are being studied.

Does Ford Ranger come in manual?

Will the 2024 Ranger have a manual transmission? All 2024 Ford Ranger models come with a 10-speed automatic transmission and the option of rear-wheel drive or four-wheel drive. The 2024 Ranger Raptor takes it a step further, offering advanced technology including Fox Racing Shocks®.

Is A Ford Ranger automatic? This power plant shifts with either a six-speed manual or six-speed automatic transmission. The higher-spec motor comes in the form of a 2.0-liter Bi-Turbo EcoBlue diesel engine that delivers 210 hp at 3,750 RPM and 500 Nm of torque from 1,750 to 2,000 RPM.

Where can I download manuals for free?

When did Ford stop making manual? What led to the manual transmission's demise? As the torque wars wage on, engine output surpassed the capability of manual-transmission clutches. GM dropped the Chevrolet Silverado and GMC Sierra's manual transmission by 2008, followed by Ford for the 2011 Super Duties and then Ram HDs for the 2019 model year.

Does Ford still make manual cars? It's a big disappointment, but Ford has dropped the manual transmission from the entry-level 2.3L EcoBoost four-cylinder models. Its V8 cars, like the 5.0L Mustang GT and the newly developed 500-horsepower track-ready Mustang Dark Horse, do still come standard with a six-speed manual, though.

Will manual transmission be gone? Are manual cars going away? In short, yes. There's no set ban on manual transmission itself, but there is a ban coming into place in 2035 on all petrol and diesel cars. That, by default, rules out manual cars, as all electric cars are automatic.

Does a Ford Ranger have a clutch? While the Ranger was a well-built truck, there are a few issues Ford Ranger owners note with their clutch system.

Is the 2024 Ranger reliable? We expect the 2024 Ranger to have about average reliability when compared to other new cars. This prediction is based on Ford's brand history and the previous generation of the Ranger.

Is Ford Ranger Raptor auto or manual?

Are Fords automatic or manual? Back in the day, stick-shift vehicles were as common, if not more, than vehicles with automatic transmissions. Many drivers prefer driving stick and being more involved in the shifting and performance of their vehicle, which is why Ford still produces vehicles with automatic transmission in 2021.

Is Ford Ranger automatic reliable? The Ford Ranger has received above-average reliability ratings from JD Power and Consumer Reports. RepairPal ranks the used Ford Ranger with a 4.0/5 reliability ranking, which is #3 in its class. With few recalls and consumer complaints in its history, the used Ford Ranger is a reliable truck for sale near you.

Where can I find my manual? Single, printed copies of DMV manuals for drivers are also available free of charge at DMV offices or by mail through the DMV Call Center for your area code.

Can you download a car owner's manual? Many car companies provide downloadable owner's manuals for free on their websites. PDF files that can be viewed online or saved to your computer or other device are available from almost every car company, and some automakers also host searchable web manuals.

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Will manual cars still exist? The manual is a dying breed. In 2023, only 1.7 percent of total car sales in the US were manuals. That is a slight increase from previous years, but still not enough to make a huge dent. However, that's not to say there aren't still options out there for enthusiasts looking to row their own.

What was Ford's best transmission? The 4R70W has proven to be a great transmission and Ford used it heavily throughout its line up of rear wheel drive vehicles from the Mustang to the F-150, and the other cool part is they used it on their traditional small block engines and the newer Modular style motors.

What transmission does a Ford Ranger have? Powertrain. For the North American market, the Ranger is produced with a single powertrain: a 2.3-liter EcoBoost inline-four paired with 10-speed 10R80 automatic transmission.

Will there be a manual Ford Ranger? The 2023 Ford Ranger comes standard with rear-wheel drive, but depending on trim, you can also choose between a part-time or full-time four-wheel drivetrain. The new transmission options are a six-speed manual or an upgraded 10-speed automatic.

Is manual better than automatic? If you do a lot city driving, an automatic may be easier to maneuver through stop and go traffic than a standard transmission. However, if performance and the driving experience matters to you, you might want to consider a manual. Another factor to keep in mind is if there'll be other people driving the vehicle.

Does Toyota make manual cars? Driving Enthusiasts Rejoice The inclusion of manual transmissions in the 2024 Toyota models, particularly in the GR Corolla, GR 86, GR Supra and Tacoma, is a testament to the brand's dedication to the joy of driving.

Are manuals dying out? In 2000, more than 15 percent of new and used cars sold by the auto retailer CarMax came with stick shifts; by 2020, that figure had dropped to 2.4 percent. Among the hundreds of new car models for sale in the United States this year, only about 30 can be purchased with a manual transmission.

Why do manual cars last longer? Manual transmissions require less servicing to remain functional and don't need the same type of oil as an automatic transmission. Cars with a stick-shift usually last longer than an automatic of the same make and model.

Is Porsche getting rid of manual? The 2025 Porsche 911 Won't Be Available With a Manual Transmission. You'll be able to buy a Porsche 911 with a hybrid powertrain next year, but not one with a stick shift. None of the iconic model's announced 2025 model year variants will be available with a manual transmission as an option, according to The Drive.

Is A Ford Ranger manual or automatic? Yes, the Ranger is available in Automatic transmission. The Automatic transmission variants are: 2.0L Bi-Turbo Wildtrak 4x4 AT, 2.0L Turbo Sport 4x4 AT, 2.0L Turbo XLT 4x2 AT, 2.0L Turbo Wildtrak 4x2 AT and 2.0L Turbo Sport 4x2 AT.

Does Ford Ranger Wildtrak come in manual? The current six-speed automatic transmission available on Ranger will continue along with the introduction of a new six-speed manual transmission for Single Turbo diesel variants.

Does Ford Ranger Raptor have manual? The Ranger Raptor uses a 10-speed automatic. For those who want at least some opinion on gear selection while driving can opt to use the magnesium paddle shifters. The transmission does more than shift gears, however. Ten speeds allow for customized gear progression, and quicker, more accurate shifts.

What are the weaknesses of a Ford Ranger?

Are Ford Rangers powerful? The 2024 Ranger comes with just one bed length and cab configuration: SuperCrew with a five-foot bed. Engine choices include a 270-hp, 310-lb-ft 2.3-liter EcoBoost I-4 or a new-to-Ranger 315-hp, 400-lb-ft 2.7-liter twin-turbocharged V-6. (These are familiar engines to Ford fans.)

Where is Ranger built? As a truly global product, the Ford Ranger is manufactured in five production hubs around the world: Ford Thailand Manufacturing (FTM) and AutoAlliance Thailand (AAT), Silverton Assembly Plant in South Africa, Michigan Assembly Plant in the U.S., and the Pacheco Assembly Plant in Argentina.

Does Ford Ranger Raptor have manual? The Ranger Raptor uses a 10-speed automatic. For those who want at least some opinion on gear selection while driving can opt to use the magnesium paddle shifters. The transmission does more than shift gears, however. Ten speeds allow for customized gear progression, and quicker, more accurate shifts.

Does a Ford Ranger have a clutch? While the Ranger was a well-built truck, there are a few issues Ford Ranger owners note with their clutch system.

Are Fords automatic or manual? Back in the day, stick-shift vehicles were as common, if not more, than vehicles with automatic transmissions. Many drivers prefer driving stick and being more involved in the shifting and performance of their vehicle, which is why Ford still produces vehicles with automatic transmission in 2021.

What trucks come with a manual? New car shoppers seeking a three-pedal truck can still find one in the Jeep Gladiator and Toyota Tacoma, but similar midsize trucks like the Chevrolet Colorado, Ford Ranger, GMC Canyon and Nissan Frontier have joined the rest of the industry in all but abandoning manual transmission vehicles.

Is Ford Ranger and Raptor the same? The Ranger Raptor is still a wide-stance off-road pickup in the Raptor mold—0.1 inch narrower than a regular F-150, at least out at the fenders. But it's built up from the new 2024 Ford Ranger, a compact truck that's just 75.5 inches wide.

Will 2024 Bronco have manual transmission?

Is a Raptor a Ranger or F-150? Both Raptors have similar styles; the Ranger is just smaller than the F-150. The F-150 Raptor offers more power and space. The Ranger Raptor can fit in more narrow places thanks to its midsize capabilities. The MSRP of the Ranger Raptor is \$55,470 while the MSRP for the F-150 Raptor is \$78,330.

Is there a manual Ford Ranger? Obviously the habit of creating a good manual is so engrained within Ford it is easier to make one than not. The six-speed's shifter has a long throw, but a nice weight, and moves smoothly between easy-to-find positions. The clutch bites low and progressively, the Ranger is easy to drive smoothly.

Is A Ford Ranger manual or automatic? Yes, the Ranger is available in Automatic transmission. The Automatic transmission variants are: 2.0L Bi-Turbo Wildtrak 4x4 AT, 2.0L Turbo Sport 4x4 AT, 2.0L Turbo XLT 4x2 AT, 2.0L Turbo Wildtrak 4x2 AT and 2.0L Turbo Sport 4x2 AT.

Does Ford Ranger Wildtrak come in manual? The current six-speed automatic transmission available on Ranger will continue along with the introduction of a new six-speed manual transmission for Single Turbo diesel variants.

Does Ford still make manual? For the 2024 Ford Bronco, its Badlands, Big Bend, Black Diamond, and Heritage Editions are all available with a standard seven-speed manual transmission.

Is manual better than automatic? If you do a lot city driving, an automatic may be easier to maneuver through stop and go traffic than a standard transmission. However, if performance and the driving experience matters to you, you might want to consider a manual. Another factor to keep in mind is if there'll be other people driving the vehicle.

What transmission does a Ford Ranger have? Powertrain. For the North American market, the Ranger is produced with a single powertrain: a 2.3-liter EcoBoost inline-four paired with 10-speed 10R80 automatic transmission.

Are manual trucks better? Safer- While manual shifting provides a feeling of control, automatic shifting allows your vehicle to respond immediately to changing conditions and situations. That's because the computer will evaluate speed, engine torque, and vehicle angle before shifting.

Are manual cars cheaper? It's usually less expensive than an automatic-equipped vehicle. The transmission often costs less to repair. Resale value on sportier models is typically better.

Why drive a manual truck? Overall, driving a stick shift is more advantageous because of its better control. One can better control their speed and revs (engine revolutions per minute, RPM) due to the ability to change which gear the car is in manually. This is something that cannot be done in an automatic.

What is the content of KLB physics Form 1? KLB Physics Form 1 is a textbook designed to teach secondary school students in Kenya the basics of physics. It covers topics such as forces, energy, light, sound, electricity, and magnetism. It also includes examples and practice questions to help students understand the material.

Who is the best physics teacher in physics? The No 1 physics teacher in India is Nitin Vijay Sir, or NV Sir. His extraordinary teaching methodologies, extensive experience, and dedication to student success have placed him at the forefront of physics education in the country.

What is a teacher's guide book? Teachers' Guides (TGs) refer to a set of lesson plans for teachers (they are sometimes known as scripted or structured lesson plans).

What is a 1 form in physics? In a local coordinate system, a one-form is a linear combination of the differentials of the coordinates: where the x^μ are smooth functions. From this perspective, a one-form has a covariant transformation law on passing from one coordinate system to another. Thus a one-form is an order 1 covariant tensor field.

What are the branches of physics form 1?

Who is the girl who loves physics? Dianna Leilani Cowern (born May 4, 1989) is an American science communicator. She is a YouTuber; she uploads videos to her YouTube channel Physics Girl explaining various physical phenomena.

Who is known as King of physics?

Which YouTube teacher is best for physics?

How do I become a good teacher guide?

What is a day book for teachers? Daybook is a digital daily planner and teacher's diary designed for Primary School and High School Teachers.

What is the difference between a teacher guide and a mentor? Typically, teachers provide instruction and guidance in a limited setting, such as a classroom or online. Mentors serve as long-term advisors who guide their mentees through life. So a mentor can be a guide as well. Guides, however, are shorter-term advisors who help mentees navigate specific situations or tasks.

What is P in physics 1? In the International System of Units, the unit of power is the watt, equal to one joule per second. Power is a scalar quantity. Power. Common symbols. P.

What is a 5 in physics 1? Getting a final score of between 3 and 5 is considered a good AP Physics 1 score. Scoring a 5 is the absolute best score.

What is W in physics 1? watt (W) probability. unitless. momentum. kilogram meter per second (kg·m/s)

What is the hardest branch of physics? Quantum mechanics is deemed the hardest part of physics.

What is the hardest part of physics 1? However, a unit that many students find challenging is rotational motion, which covers topics like rotational kinematics, torque, and angular momentum. This is because these concepts are less intuitive than those covered in earlier units, and the math often involves more complex problem-solving.

Is physics one of the hardest subjects? Physics. A-Level Physics is another notoriously difficult subject, and is often seen as a prerequisite for students who wish to go on to study engineering or the sciences at university. The subject covers a wide range of topics, including classical mechanics, quantum mechanics, and thermodynamics.

Who is known as God of physics? Isaac Newton is often celebrated as the father of modern physics. His laws of motion and the law of universal gravitation, expounded in the late 17th century, provided a comprehensive framework for understanding the behavior of objects in the universe.

Who is physics queen? This engaging biography follows Wu Chien Shiung as she battles sexism and racism to become what Newsweek magazine called the “Queen of Physics” for her work on beta decay.

Who is the papa of physics? 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.

Is Elon Musk a physicist? Two years later he matriculated at Queen's University at Kingston in Canada. Musk later transferred to the University of Pennsylvania and received bachelor's degrees in economics and physics.

Who did Einstein marry? Einstein was married twice, to Mileva Maric from 1903 until 1919 and to his cousin Elsa from 1919 until her death in 1936. Previously released letters suggested that his first marriage was miserable, and that he cheated

on Elsa with his secretary, Betty Neumann.

Which scientist was never married? Isaac Newton "The experience of being abandoned by his mother scarred Newton and likely played a role in shaping his solitary, untrusting nature," History.com reports. A loner for most of his life, Newton focused on his scientific work and never married.

What is the composition of air form 1? The composition of air consists of three key components of air, namely Nitrogen (78%), Oxygen (21%), Argon (1%), Carbon-di-oxide (0.03%) and water vapor.

What is the definition of physics form 1? Physics is a Greek word meaning nature hence it deals with natural phenomena. Physics is. therefore a science whose objective is the study of components of matter and their mutual. interactions. Physics is also defined as the study of matter and its relation to energy.

What is the build volume of Form 1? Formlabs Form 1+ overview It offers a build volume of 125 × 125 × 165 mm 4.92 × 4.92 × 6.5 in.

What is physics 1B? Physics 1B "Physics for Scientists and Engineers: Fluids, Oscillations, Waves, and Electricity," 5 units. Lecture/demonstration, four hours; discussion, one hour.

What are the five components of air? Air is made up of 78.09% nitrogen, 20.95% oxygen, 0.93% argon, 0.04% carbon dioxide, and other gases in meagre amounts. Water vapour is also a constituent of air in varying amounts, along with dust particles. The molar mass of dry air or air with no/low quantity of water vapour in it is 28.97g/mol.

Do we breathe oxygen or nitrogen? The gas that makes up most of the air we breathe is... NOT oxygen! Nitrogen makes up about 78% of the Earth's atmosphere. Breathing an atmosphere of pure oxygen would damage the delicate tissues and blood vessels in our lungs, so it's a good thing that most of our atmosphere is nitrogen.

What are the three main elements in the composition of air?

What grade level is physics 1? The majority of high schools which have implemented "physics first" do so by way of offering two separate classes, at two separate levels: simple physics concepts in 9th grade, followed by more advanced physics courses in 11th or 12th grade.

Is regular physics 1 hard? AP Physics 1 consistently tops the list of most difficult AP classes. AP Physics 1 explores college-level content and covers foundational science knowledge. Students with strong math and science skills are most likely to earn a passing AP exam score.

How to pass physics?

What is the difference between Form 1 and Form 3 suppressor? Use ATF Form 1 if you want to make your own NFA item. Use ATF Form 3 if you're an FFL dealer transferring your NFA item to another FFL or government agency. Use ATF Form 4 if you're a private citizen taking ownership of an NFA item in the form of an individual registration, gun trust, or corporation.

What is the volume form of a sphere? The general formula for the volume of sphere in terms of its radius is given as $V = \frac{4}{3} \pi r^3$.

What is the difference between Form 1 and Form 2 suppressor? The ATF Form 1 is an application – this means that it is sent in to the ATF as a request for permission. The ATF Form 2, on the other hand, which is used by FFL manufacturers, is a notification form – it is not an application for permission and is sent in by the FFL after the NFA item has been made.

Is physics 1 harder than 2? AP Physics 2 Although it covers different content, it's also an algebra-based course and can be considered a continuation of AP Physics 1. The level of difficulty is comparable to AP Physics 1, but it may seem more challenging due to the introduction of more abstract concepts and a broader range of topics.

Is physics 1 easy? AP® Physics 1 is a difficult course with a lower-than-average passing rate. If you fail the exam, know that there are ways to keep this from derailing your academic future. Failing the AP® Physics 1 exam won't affect your GPA or your ability to graduate high school.

Is physics 1 or C harder? We all know that AP® Physics 1 is easier than AP® Physics C. We note that many of the AP® Physics C courses self-select for those motivated students or those with higher grades in Math. That is the reason for the ridiculously high rates for AP® Physics C as compared to AP® Physics 1.

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