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Speed, Velocity, and Acceleration



Directions: Determine if the following scenarios are describing an object's speed, velocity, or acceleration.

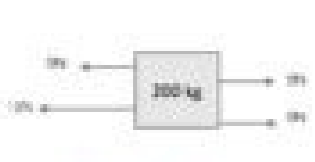

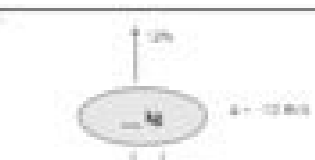
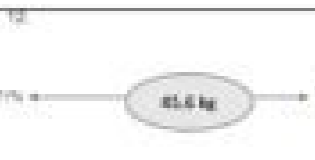

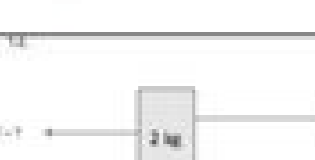
Scenario	Speed, Velocity, or Acceleration
1. A jeep was driving 40mph headed to the grocery store.	
2. A car slowing down to turn an corner.	
3. A cars speed increases from 80mph to 40mph.	
4. A school bus travels 80 miles per hour in a school zone.	
5. An airplane travels 550 miles per hour towards Dallas, Texas.	
6. A submarine travels 460 nautical miles per knot.	
7. Migratory birds fly 80 miles per hour headed south in the winter.	
8. A peregrine falcon sitting on a stoop dives down towards its prey at 100 miles per hour.	
9. A boomerang reverses its path to return to its starting position.	

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Name: _____ Date: _____ Period: _____ Initial: _____
 CP Physics - Newton's Law of Universal Gravitation - Worksheet

- 1- Calculate the gravitational force between a two asteroids: mass = 3.5×10^9 kg each with a distance of 1000 m between their centers.
- 2- Calculate the force between if the distance is reduced to 500 m between their centers.
- 3- What is the acceleration on asteroid A?
- 4- Calculate the force of Earth's gravity on a spacecraft 12,800 km (2 Earth radii) above the Earth's surface if its mass is 1350 kg.
- 5- A hypothetical planet has a radius 1.5 times that of Earth, but has the same mass. What is the acceleration due to gravity near its surface?
- 6- A hypothetical planet has a mass 1.66 times that of Earth, but the same radius. What is g near its surface?
- 7- Calculate the effective value of g , the acceleration of gravity, at
 (a) 3200 m, and
 (b) 3200 km, above the Earth's surface.
- 8- A neutron star has five times the mass of our Sun packed into a sphere about 10 km in radius. Estimate the surface gravity on this monster.
- 9- A typical white-dwarf star, which once was an average star like our Sun but is now in the last stage of its evolution, is the size of our Moon but has the mass of our Sun). What is the surface gravity on this star? The Moon's radius is 1.74×10^6 m.
- 10- The asteroid Ceres has a mass of 7×10^{22} kg and a radius of 500 km:
 What is the gravitational field on the surface?
 How much would a 90-kg astronaut weigh on Ceres?
 What is the gravitational field at 100 km from the surface?



<p>10. </p> <p>Net Force = $\sum F_x = 100\text{ N} - 100\text{ N} = 0\text{ N}$ $\sum F_y = 200\text{ N} - 200\text{ N} = 0\text{ N}$</p>	<p>11. </p> <p>Net Force = $\sum F_x = 1000\text{ N} - 1000\text{ N} = 0\text{ N}$ $\sum F_y = 2000\text{ N} - 2000\text{ N} = 0\text{ N}$</p>
<p>12. </p> <p>Net Force = $\sum F_x = 40\text{ N} - 40\text{ N} = 0\text{ N}$ $\sum F_y = 100\text{ N} - 100\text{ N} = 0\text{ N}$</p>	<p>13. </p> <p>Net Force = $\sum F_x = 175\text{ N} - 45.6\text{ N} = 129.4\text{ N}$ $\sum F_y = 0\text{ N}$</p>
<p>14. </p> <p>Net Force = $\sum F_x = 75\text{ N} - 38\text{ N} = 37\text{ N}$ $\sum F_y = 0\text{ N}$</p>	<p>15. </p> <p>Net Force = $\sum F_x = 10\text{ N} - 2\text{ N} = 8\text{ N}$ $\sum F_y = 0\text{ N}$</p>

11. Christine and Chen are competing to see who is the fastest runner! Christine runs a 100-kilogram and Chen's mass is 120 kilograms. If they all start the race amount of force, 200 Newtons, then who is the acceleration rate?

A. What is the acceleration rate of Christine?
A= 1.96
A= 200 N/60 kg
A= 3.33 m/s²

B. What is the acceleration rate of Chen?
A= 1.96
A= 200 N/120 kg
A= 1.67 m/s²

C. Who will win the race and why? Christine will win the race because he has a greater rate of acceleration and therefore, greater speed.

12. A little boy, Francis, has a mass of 45 kg. He is sitting in a wagon pulled by his very strong dad, Howard. The acceleration rate of the wagon is 0.80 m/s². How much force is he dad exerting to pull the wagon?
F= ma
F= 45 kg (0.80 m/s²)
F= 36 N

13. An 8 kilogram object is placed on a spring scale on the surface of an imaginary planet called Lutzogria. If the spring scale reads 98 Newtons, what is the acceleration rate of the force of gravity on the planet Lutzogria?
A= 10N
A= 78 N/8 kg
A= 9.75 m/s²

14. An unbalanced force of 28 Newtons is applied to an object that has a mass of 1.3 kilograms. What is the acceleration rate of the object?
A= 10N
A= 28 N/ 1.3 kg
A= 2.15 m/s²

15. A car is moving at a constant acceleration rate of 8 m/s². If the unbalanced force acting on it is 8000 Newtons, what is the mass of the car?
M= F/A
M= 8000 N/ 8 m/s²
M= 1000 kg

Name: _____ Date: _____

Gravity on Other Planets

Planet	Weight	Age
Mercury		
Venus		
Earth		
Mars		
Jupiter		
Saturn		
Uranus		
Neptune		

1. What relationship do you notice between weight and size of the planet?

2. What relationship do you notice between age and planet's distance from the sun?

3. Based on your data, which planet would you most like to live on?

Every organization needs something that works best for them, whatever it may be. Leave space in the plan to go back over areas that were difficult for the students to understand. Discuss decision variables: brand, quality, scope, warranty, packaging, price, discounts, bundling, payment terms, distribution challenges, logistics, motivating the channel, advertising, PR, budget, projected results. (And a few breaks when you slept). One Gift. program even won two awards: the silver award for Annual Giving Programs in the CASE Excellence Awards for District I and another silver award in the 2016 CASE Circle of Excellence for Annual Giving Programs. Help me find my tender heart that I lost along the way. One Gift. Because something tells me, when middle school comes, I'm gonna need it. When all you needed was me. Validating important decisions with this "why" component is important for gaining support for the plan and ensuring that you continue to move forward with positive progress. It's so easy to find great inspiration at any time. In that hospital gown. Take me back to those toddler years. Your marketing plan is what helps you reason with individuals who get excited about new ideas and remind them of the clear plan that was agreed upon going into the year. They can be time-consuming and confusing. In your lesson plan, mark notations in textbooks you're using as a cross-reference. It's helpful to have support from your head of school and other departments to agree with these determinations of priorities. What parts worked and which ones need adjusting? This is where you break down what you're doing, when, and through which channels. I always make sure that I clearly explain why I've developed the timeline and concept. This helps you gain confidence and ensures successful classroom instruction. It helped us look at our work and celebrate the things we nailed and figure out how to improve in other areas. It's a lot of work to complete all these steps, and it often feels like the more time you spend on a marketing plan, the less you use it. Figure out the amount of time you'll be teaching and break it down into segments. The years of you still looking up to me and liking me. The first thing I do is make sure I understand the institutional goals tasked to marketingI also make sure that I clearly outline and understand the institutional goals related to marketing. This post comes from the TODAY Parenting Team community, where all members are welcome to post and discuss parenting solutions. When I was the visible hottest mess of the hot messes end result of all that havoc that you wreaked both in and outside of our home. Preview Preview Prepare for class by writing clear lesson plans that are easy to read. Some of these marketing initiatives don't need to be spelled out step by step, but a quick explanation of why can go a long way. Share your indicators of success for the aspects of your project. Take me back to those first few days. Worksheets, question and answer sessions, group activities and individual assignments make use of various learning styles. It was such a success that the program helped us not only reach our goals but also exceed them. Include a warm-up activity to get the students' attention. Meaning, I may not be the department directly charged with these, but my team and I will support them and work closely with them. I make sure I know which departments and goals are the highest marketing priorities for the year. Pick the two-to-four things that either need the most urgent attention or will have the greatest impact on your outcomes. After you've completed the lesson in the classroom, evaluate how it went. You might try to get around this by finding another plan to work off of, but surprisingly, you probably never can find one that fits your needs. Many private institutions are finding that they need to engage in strong marketing tactics to thrive in today's increasingly competitive market. That means more schools than ever are developing marketing plans to guide them, and for schools who don't already have strong strategies in place, it can be overwhelming to get started. Some experts believe that a marketing plan doesn't have to follow an exact template or structure. How would you do this? Here are some tips to help you get on the right track. Marketing plans are the roadmap to success for your office. Incorporating various learning styles in the lesson plans can be an effective teaching method with a wide range of students and their abilities. In that hospital room. Check out this article on the Annual Fund Marketing Program created at Cheshire Academy that we called, One Word. Alternative Marketing StrategiesThe strategies you aren't planning to use, but were considered Short & Long Term ProjectionsGoals & outcomes: The immediate effects of the proposed strategies, expected long-term results, and special actions required to achieve them. This is especially important for your admission office in recruiting students and for your development office in building alumni relationships and soliciting donations. These guides help you set a plan by streamlining what you do and why you're doing it. Just make sure you can realistically address the items in your given timeframe, which is often one academic year. Highlight materials you'll need and have them available ahead of time.InstructionConsidering the academic, social and personal needs of the students, write out the instruction plans, keeping sequencing in mind for flow. Designed to engage constituents in a two-part interaction with the school, this endeavor asks donors to remember what they love about Cheshire Academy by choosing one word to represent their experiences and to then make one gift to the annual fund in honor of that word. Take me back to those elementary years. Lay out a week's worth of plans to carry over any information from one day to the next. By walking through the lesson plan, you'll find areas that might need tweaking. Making these priorities is also helpful when you get those requests for small projects from departments other than your top clients. A lesson plan free template is ideal for creating weekly lesson plans. Why is that? That's because no two companies are the same, no two schools are the same; they all have different goals and needs. Brainstorm some ideas for how to tell your story. Guidelines are awesome to share, but your details are yours. Use that extra copy of the lesson plan to practice at home. The why is a crucial part of your marketing, as it explains the reasoning for your actions. So, you might want to change your perception of a marketing plan: forget about what you think it should be, and think about what you need it to be. When you started to talk and eat. It doesn't mean everyone will be happy with your response, but it helps you make it possible for them to understand your reasoning. The next step is to start thinking about the tools you have at your disposal and how you'll use them. It helps remind you, and your community, of your end goals and how you're going to get there, reducing the number of detours along the way. But, even the greatest of ideas can derail your progress if they don't align with the messaging, goals and themes that you have for the year. Review the key points. The years of you starting to come into your own, but still very much knowing you are forever mine. Once you've written the lesson plans, make a copy to have in case the original is misplaced and as a backup at home.ObjectivesPlan your objectives for the lesson plan. Analysis Strategies (How will you assess success) AppendixCalculations and data used to support the information above, reports from previous years Industry reports and marketplace projections It's exhausted just reading that. When you were my very content lap partner, whether I was talking or eating. Give yourself wiggle room in each of the lesson plans to make adjustments as needed. Try another search, this time for marketing plans for schools and you will find about 30 million results. Good luck sorting through all of those! It can be daunting to even consider creating a marketing plan, especially if you're not sure what to do. You might actually have seven or eight goals for each department, but you'll never get anything accomplished if you try to tackle everything at once. The strategy involved reconnecting with alumni by asking them to pick one word to describe their Cheshire Academy experience and then make one gift to the annual fund in honor of that word. Take me back to where it all began. I've seen some schools go so far as to have signed contracts with key stakeholders to guarantee adherence to the priorities and directions.Then I work to outline my timeline, concept, and tools for each of my top department priorities. You can pull from a strategic plan or a marketing analysis to give you guidance. Let's say your school needs to Improve Marketplace Position. A particular emphasis will be made on encouraging online donations. After the first year of our annual fund marketing program, we assessed what worked well and what did not. Tie in one lesson plan to the next one. A lot of hard work goes into developing these plans, which are unique to each institution. When you learned to sit and crawl and stand and walk. Include details specific enough that a substitute teacher could come in and understand them. However, it's important to still keep track of this great inspiration for future projects and plans! Do a quick Google search for marketing plan examples and you get around 12 million results. Let's look at what this might look like for the Academy's Development Annual Fund project: CONCEPT: This branded Annual Fund endeavor combines print marketing with email, digital, and social media marketing, as well as development outreach to reconnect with current and past constituents. The gift is the outcome of the marketing strategy: achieving your goals is the gift.The box is the tools you'll use to carry out your strategy: email, social media, print, etc.The wrapping paper and bow is the concept you'll use: the message and design This is where you get to start having some fun. This is your reality check when people start getting lots of great ideas that may not align with the overall strategies. For each of your clients (as we outlined above), you want to clearly illustrate your timeline, concept, and tools that you will use. The more you can explain why you're doing what you're doing, the better. Curriculum-based hands-on board games and art activities related to the lesson break up the study sessions.ConclusionConclude the lesson by summarizing what you've discussed. Chances are, you'll want to ensure that you have cohesive branding and messaging, and make sure that the entire school is in support of that messaging. Take me back to those early years. When all I wanted was you. You might find a more specific goal of increasing annual fund dollars for the development office, which is one way that the marketing office can be called upon to assist. Then, you will create focused publications and digital presence in support of that branding and messaging. Here's a glimpse into the print marketing strategy for my annual fund. Share the complementary efforts you're planning to do, also. We knew we would assess the Annual Fund using these four quantitative factors. Evaluate your success. What you don't complete on Monday can be finished on Tuesday.IntroductionWrite an introduction for the lesson, giving an overview of what's expected. (omg, did I really just wish that?) When you would wreak beautiful havoc out in public and all over our home. With you in my arms. It looks something like this for a fundraising example: CLIENT: Development OfficePROJECT: Annual FundGOALS: (3-4 main objectives for the year)Increase participation overall (# of donors)Increase donations (dollars raised)Increase online donations (dollars raised via online giving forms)Reconnect with alumniACTION ITEMS: (2-4 marketing methods to achieve the goals)Create a branded annual fund marketing programOverall MessagingDigital Strategy: Email marketing, giving form improvements, and social media outreachPrint Strategy: annual appeals, postcards, brochuresTalking Points: language that development officers can use to promote continuity of messaging. The One Word. Decide if you want all lecture lessons, part lecture and student involvement or an activity-based lesson. That's why the same marketing plan structure will not work for every school or company. It helps you keep your focus on the things that you can realistically accomplish in a given time period, and, as you saw in the admission goals, look at those goals that need more time to complete but need to get started now. MORE FROM QUESTIONSANSWERED.NET Help me find my tender heart that I lost along the way. Make an outline, including an estimated amount of time for each section. Learn more and join us! Because we're all in this together. Think about marketing like giving someone a gift. Mark down if you plan to assign homework related to the lesson.EvaluationPractice scripting, especially if you're new to teaching. It gives you validity when you say, we can't accommodate this project right now, and explain why. Let's look at an admission example now: CLIENT: Admission OfficePROJECT: Recruiting - increase inquiriesGOALS:Improve online user experience (make things easier to find)Increase the number of new qualified leadsGenerate a new, expanded target audience (long-range goal)ACTION ITEMS:Redesign WebsiteEmail marketing strategySEO campaignInbound marketing strategy Developing these mini-outlines helps you prioritize your goals and objectives for the year. Include the procedures you'll use during the intro and the rest of the lesson. Using these institutional goals, you can outline the various projects, goals, and action items for each department. This is important to avoid scope creep, getting off track from your intended projects. Not every great idea can be used at once, and it's ok to say no to even the most amazing idea; just make sure you save it for later use. That said, let me share a little more of my details than most ... They keep you on track so you can navigate your way through the year, and ideally next several years, without getting side-tracked. Jump down a bit to see recommendations of a marketing plan, but first, a formal marketing plan tends to be outlined as follows: Executive Summary The Mission Differentiators/Value Proposition Institutional Vision Target Audience Situation AnalysisInstitution, Customer, Competitor, Collaborator, Climate SWOT (Strengths, Weaknesses, Opportunities, Threats) Analysis Marketing SegmentationSegment 1: Descriptions, sales reports, goals and outcomes, product usage, resource requirements, outreach plan, pricing Segment 2: Descriptions, sales reports, goals and outcomes, product usage, resource requirements, outreach plan, pricing Selected Marketing Strategies (Action Items)Why these strategies were chosen, including product, price, place, promotion, and how they will be completed. A long, complex, formal plan that addresses every problem that has ever surfaced at your school.A document that takes so long to create that you never finish it.A document that is so complex that it's not a useful tool.Analysis for the sake of analysis Specific and realistic problems to solve.Achievable goals.An easily executable roadmap.Potential challenges and solutions.A way to track success. The first thing is to determine the institutional goals that are tasked to the marketing department.

Mix and match HMM programs for a summer school curriculum that drives student growth. Easy-to-implement and effective. CORE CURRICULUM. Into Social Studies, K-6 HMM Social Studies, 6-12 SEE ALL SOCIAL STUDIES. AP & ELECTIVES. AP Human Geography ... Newton observed the infamous apple falling from a tree, and drew important conclusions about the behavior of everyday objects under the force of gravity. In the case of a feather and a coin, one would believe that a feather will always fall more slowly to the ground, and the coin faster. Mix and match HMM programs for a summer school curriculum that drives student growth. Easy-to-implement and effective. CORE CURRICULUM. Into Social Studies, K-6 HMM Social Studies, 6-12 SEE ALL SOCIAL STUDIES. AP & ELECTIVES. AP Human Geography ... lesson plans for second grade patterns algebra ; Algebra1 ; ... Free worksheets on Ratios and Rates ; middle school math with pizzazz book e ; pre-employment algebra tests ; ... force mass acceleration ks4 college algebra help free trigonometry help cube root using TI 83 cheat sheet holt Algebra 2 ... 26/10/2021 · Find the force between the earth and sun, given the mass of the earth, is 6 x 10²⁴ kg and the mass of the sun is 2 x 10³⁰ kg. The distance between the ... Newton observed the infamous apple falling from a tree, and drew important conclusions about the behavior of everyday objects under the force of gravity. In the case of a feather and a coin, one would believe that a feather will always fall more slowly to the ground, and the coin faster. Mix and match HMM programs for a summer school curriculum that drives student growth. Easy-to-implement and effective. CORE CURRICULUM. Into Social Studies, K-6 HMM Social Studies, 6-12 SEE ALL SOCIAL STUDIES. AP & ELECTIVES. AP Human Geography ... 22/09/2021 · Mathematically, this is given by F = G*(m1*m2/d^2), where F is the force, G is the universal gravitational constant, m1 is the mass of object ... lesson plans for second grade patterns algebra ; Algebra1 ; ... Free worksheets on Ratios and Rates ; middle school math with pizzazz book e ; pre-employment algebra tests ; ... force mass acceleration ks4 college algebra help free trigonometry help cube root using TI 83 cheat sheet holt Algebra 2 ... lesson plans for second grade patterns algebra ; Algebra1 ; ... Free worksheets on Ratios and Rates ; middle school math with pizzazz book e ; pre-employment algebra tests ; ... force mass acceleration ks4 college algebra help free trigonometry help cube root using TI 83 cheat sheet holt Algebra 2 ... Newton observed the infamous apple falling from a tree, and drew important conclusions about the behavior of everyday objects under the force of gravity. In the case of a feather and a coin, one would believe that a feather will always fall more slowly to the ground, and the coin faster.

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