

Continue



you expect of me. I also made sure to talk about how Genius Hour is a time for them to learn about things they love, to just Google things that students understand the purpose and value of Genius Hour. Allow time for students to brainstorm ideas. Consider using a tool such as Peardeck or Socrative to help them narrow down their ideas to just one. Have students do some sort of interest survey. I chose to have them fill out a short questionnaire on Google Forms. This allowed me to sort their responses by interest, so I could easily tell which the most popular topics and which students were interested in the same things. Break into groups with similar interests and research together. I decided that each group would need a minimum of three students since they would be working together on their projects at the end of this phase as well. You can also allow students to work independently without a group setting. Have students decide on a final topic and start working on their project. I think its important for kids to pick their own topics because it makes them more invested in their own learning. (Its also important for teachers to make sure that the projects are feasible!) Let your students Continue working on projects for the next several weeks during Genius Hour time (which can be once or twice a week 30 mins or 1 Hour). Give students time, space and materials to work on their projects. Students can work individually or in small teams depending on the type of project they are doing. Provide support and guidance as needed throughout the process. Check-in with students regularly to help them stay on track and answer any questions they may have along the way. Allow students to choose how they want to share their learning. Students should share their learnings with the class in some way whether that be a formal presentation or an informal chat with classmates about what they learned during the process. The outcome should be measured in terms of the learning that the student has achieved not by any other means. Ideally, the whole exercise should help them develop interests that are personal and meaningful to them. Nothing else matters. Allowing kids to choose their topic allows a new dimension of learning. For example, it would be difficult for me as an adult to learn about the solar system because I know so much about it already. But if I had been interested in that topic as a child, and if my parents or teachers had helped me expand on that interest and create learning opportunities, I might still find that topic interesting now and have learned even more than I did in school. In addition, they are more likely to complete the project. If kids choose the project, they are going to work on during Genius Hour, they will be far more excited about it than if an adult chooses it for them. This is important; without completion, students miss out on the chance to publish their work and share it with others who might be interested as well! The role of a teacher in Genius Hour includes the following: The role of a teacher in Genius Hour is to create an environment that allows students to discover their interests and ability, and also to provide great feedback on work that has been produced. Transfer ownership to students while helping them maintain the course and stay on task. Because it is so important for our students to feel empowered in their learning. It means taking risks in their learning and exploring topics that are of interest to them. It also means that they need to be able to self-assess and revise their work based on where they think they should be going with it rather than where I think they should be going with it. Teach Students How to Research. When students are working on their projects, as a teacher you can be there to guide them through each step and make sure they are staying on track with their work. Teachers should be extremely approachable, and willing to listen and respond to students ideas and questions. Teachers should also share what they know about their subjects in order to help students develop those interests. You can also have many discussions with each student and assess learning by looking at student work samples or discussing student thinking and learning along the way. Provide students with the tools, books, websites, apps, people and spaces that they need to be successful. It is the teachers responsibility to be a gatekeeper of time and be accountable for the outcome. Work with each student so that they complete the whole process in time and be able to present it back to the class. Create and maintain an environment of trust and respect. It is ok to watch what they are doing and provide feedback occasionally. However, ensure that the students stay on track with the chosen topic. Make sure the students reflect on their learning process. It is important for students to understand the role they play in Genius Hour. They will be asked to take on different roles as the learning process moves along. There are three main roles that students can play during Genius Hour: The student(s) who will be responsible for organizing and managing the project from beginning to end. This role may change as the project progresses. The leader might also have a hand at making, but this person must have a vision or goal for the group. The person who designs the finished product of the project. This could be someone who makes something that is tangible, like building a model or designing an app. Or it could be someone who organizes an event and works out all of the details to get it set up and implemented. This person needs to have good ideas, creative thinking skills and problem-solving skills. The student on the team researches information and data related to the topic or issue being explored by the team. This person needs to be a critical thinker and good with technology so that he or she can research topics thoroughly and evaluate sources for accuracy and bias. If you are a student/teacher from Grade 1-10, and you are looking for some interesting ways to spend your Genius Hour, here is a list of ideas that you can use. How to make paper planesHow to make a kiteHow to make cupcakesHow to draw a roseHow to draw a bicycleBirds of North AmericaLearn Why are tornadoes so destructiveTake a good photographExplore starsHow to bind a bookHow to make paintHow to make inkMake a playdoughLearn about volcanosLearn about turtlesSew a dress for a dollMake Jewelry Knit a sweaterWrite a chapter bookLearn the causes that make the days get longer and shorterLearn how the heart pumps blood across the bodyLearn to knitLearn to crochetHow to solve Rubix cubeLearn to set up a garden and grow plantsMake homemade slimeResearch a historical place or eventExplore an animals habitat.How the world is rotating and why we dont feel itWhat makes birds flyFrom where do butterflies get their coloursMake a photo collage book Ways to help endangered animalsHow to make natural compost Learn how the moon affects the EarthConduct a science experimentUnderstand the effect seasons have on our planetHow to create a mapLearn how to do OrigamiDo a community serviceUse natural colours to dye clothesCreate your own toyRead and discuss World WarsBecome a magicianLearn to do ice skatingContribute to environmental protectionLearn to become a Lego master builderEnquire how are dreams madeLearn to create a PowerPoint presentationCreate a lesson planCreate a new course (for your favourite hobby like sewing, knitting, etc.)Learn to do a puppet showCreate a new recipeMake a website for the classWrite a short storyWrite a skitWrite a speechStudy about Carnivorous plantsHow pollination helpsDisassemble and assemble a mechanical deviceCode a computer gameLearn to create a website or blogLearn about the reasons some animals are extinctTeach someone how a thermos worksWhat role does science play in music, sport or another hobby?History of NFLScience behind golfGlobal WarmingFind a solution to reduce the litter in your school permanentlyLearn how does the brain workDifferent foods from different parts of the worldLearn to play the guitarDesign a book coverStart a school clubHow glasses are madeCreate a movie trailer with PowerPointLearn to danceCreate new cartoon charactersDo a renewable energy projectFind new ways for energy conservationRun a charity event (concert, run, walk, drive, etc.)Learn and teach a coding lessonExplore and explain how a phenomenon works (electricity, cyclone, volcano, solar energy, etc.)Conduct a virtual field tripBuild a remote carCreate a basic electronic circuitResearch future career ideasResearch how to make somethingLearn a new languageLearn to do Yoga Develop a science group for middle schoolWrite a songLearn to skateboardDiscover effective ways to lose weightConduct a social experimentMake a short movieCreate a. out for recyclablesDiscover ways to balance my budgetLearn about the causes and preventions of cancerMake people aware of global warmingLearn how to create an appBenefits of Electric carsHow is Plastic madeHow Aerodynamics affect football gameLearn to create a video gameCreate a campaign to reduce bullying in my schoolHow clothes are madeWrite a bookExplore the need for sleepWhy seat belts are importantDiscuss the future of schoolsWhy bees die after they stingWrite a poemCreate and run an online newspaper for your schoolWrite a scriptRun a fundraising projectCreate a Claymation videoDuring a concert videoMake a YouTube videoWrite a songInterview a famous personalityCreate a manifesto for your school clubDesign a pamphlet for your school eventPhotography exhibitionHow to recycleHow to remove plastic from the seaMake a stop-motion movie Make people aware of the dangers of smokingExplore how the mind worksCreate a wellness plandesign a textbook that is excitingLearn to become a professional sportspersonWhat exactly happens when a bone heals after being broken?Build a sustainable garden that provides ingredients to reduce our food expensesCreate your own board gameExplore the theories behind the origin of the worldLearn how stock markets workMake a musical out of a storybookCreate a google break-out roomMake musicResearch whether different colours change the opinions/moodsInvent a languageCreate a new sport or gameHow to prevent animal abuseAnimal ShelterHow to design accessible building plansStudy and Understand CancerStudy on Homeless PeopleWays to prevent Alzheimers Study fashion and start a YouTube channelLearn sign languageLean on the impact of technology on human lifeExplore the concepts behind black holes formationCreate an artExplore Self Driving CarsWrite a script for a short filmDive into photography and become an IG influencerCreate your own inventionAre vaccines safe?Understand the importance of DNALearn to understand Virtual RealityHow to resolve Video Game AddictionConduct an event in schoolDiscover solutions for the worlds biggest problems like poverty, pollution, etc.Study climate change and start a student-driven nonprofitLearn how to make sourdough bread and start a small bakery businessLearn a new languageExplore video game designStart your own PodcastLearn how to build furnitureLearn to do VlogPlan and create a 3D printing structureWatch / Plan for a Ted TalkLearn to become an authorLearn to become a master chefWhat are the challenges in travelling to mars?Create a new productDesign a store along with business planCreate your own robotResearch on how to start a businessDraw an original cartoon about what you like to do at school or what youre proud of doing in your life.Learn to fill out applications and apply for an interview Math is a difficult subject for many people, so it can be difficult to find genius hour idea for math. These are some of the best math-based projects that people have worked on during their Genius Hour. Write a math poemCreate a math puzzleWrite a math joke or limerickCreate a math magic trickCreate a math inventionCreate an artwork based on the Fibonacci Sequence or Golden RatioShare the history of your favourite mathematical theory and/or mathematician. The Golden Ratio: Build sculptures using this ratio in nature and art.Design a math-themed T-shirt (and sell it!)Make a math video gameExplain how your use of a specific mathematical concept has changed your life.Demonstrate how to apply a mathematical concept to a real-world problem. Explain how you would teach someone else how to use this mathematical concept or idea to solve a problem. Explore the history of piExplore the history of zeroLearn How to draw a circle without using a protractorLearn How to find the area of a triangle without using a formulaFind ways to use math in your daily lifeWrite your own math textbookLearn about the history of numbers and counting systemsWrite a childrens book about mathematicsCreate an app that teaches people about math concepts or helps them solve math problemsCalculate the probability of winning your favourite lottery game with different combinations of numbersCreate a colour-by-number picture using fractions as the colours Below are some possible animal genius hour ideas that students have actually completed or have been requested by students in our classroom. Research animal communication and create your own way that animals communicate. Create a new animal speciesCreate a nature journal showing how plants and animals in your area change over the seasons. Learn How to train a dogMake a bird feeder and observe the birds that come to it.Make a list of all the animals that live in your area and find out about them (habitat, eating habits, etc).Observe the insects that live in your neighbourhood and draw a picture of them.Find out about bats and how they are important to our ecosystem.Find out about endangered species in your state or country and explain why they are endangered. What can be done to protect them?Find out about different types of dogs and their purposes how do they help humans?Learn about horses and how they were important to people in the past (and now). What breeds are there? What are they used for?Learn more about sharks what type is the biggest? The smallest? The most dangerous? How many species are there? How do they eat? Do they have babies or lay eggs? Are some species endangered?Learn more about penguins where do they live? What do they eat? Why cant theyLearn Why do birds migrate?How does a bird fly? How does a bat fly?Why are some animals nocturnal and others are not? What makes an animal nocturnal?Create a poster on endangered animalsSpend time helping at an animal shelterCreate a poster on different species of whalesResearch animal adaptationsMake an informational video on cats and dogsWrite a persuasive essay on why people should adopt pets instead of buying them.How does the food chain work?Which animals belong to which classifications: kingdom, phylum, class, order, family, genus, species.Do animals like music? This list of baking genius hour ideas is meant to inspire and ignite your passion for baking. I hope that these ideas help you get started on your personal project. Learn how to make a vegan cake and share the recipeLearn how to make a gluten-free cake and share the recipeLearn about icing types and write a blog post about itLearn about meringue and write a blog post about itLearn how to use fondant and write a blog post about itLearn how to decorate cakes with fondantHow to make rainbow cakesHow to make a birthday cakeMaking pie crust and decorating piesHow to make hamburger cupcakes and nacho cupcakesHow to make cake popsHow to make cake flowers for a cake and write on a cakeLearn How to Create Cake Pops I really like food. I know other people who like food as well. So, I thought it might be fun to have a Genius Hour about food. Maybe we could try baking something new or making a recipe that weve never done before. Or maybe, we could look at different types of foods and talk about what people like about them and why they do or dont like them. Create and share recipes that worked for you.Create your own recipe book cookbook.Share your cookie recipe with the class, friends, and family members.Improve existing recipes (i.e. substituting ingredients)Teach others how to bake certain recipesHow to make homemade ice cream Here are some things you can research: Why do people love junk food? How can you make junk food healthier?What makes fast food so unhealthy? What can you do to make fast food healthier?What are the health benefits of eating different foods?What is the most nutritious snack?Why is it important to eat healthily?What are some good snacks to have in the classroom?How much sugar is in popular beverages?What is your favourite fruit? Why do you like it?What are some good things to eat during lunchtime at school?How can we encourage our classmates to choose healthy foods over junk food?Are there any healthy foods that taste bad that we could make taste better? How would we make them better? Can we make them healthier at the same time?Which foods are the healthiest for growing brains and bodies and why?Find healthier alternatives for some of your favourite high-calorie foods, like swapping full-fat cheese for low-fat cheese, or grilling rather than frying.The history of your favourite type of cuisine. Where did it come from? How did it spread around the world? What different types exist today? The Science of Bat SpeedThe Science of Pitch VelocityHow to Best Use Video Analysis to Improve your SwingHow to take care of baseball equipment/clean it/what is the best way?What is the history of baseball in America? (video making)/How to teach the best baseball swingHow has technology changed the game? (radar guns, cameras, etc.)The history of baseball in Japan, Cuba, and other countries. The history of your favourite team.What is the most important statistic in measuring a pitchers success? A lot of chemistry teachers are doing genius hour projects in their classes. This is a great way to get students thinking about chemistry and applying what they know and what they want to learn about chemistry. The following are ideas for Genius Hour Projects in Chemistry: How does the concentration of a solution affect its freezing point?What is the ideal ratio for homemade slime?What is the ideal ratio for homemade silly putty?How does the concentration of vinegar affect how long it takes to dissolve an eggshell?Does the amount of sugar added to lemonade affect its taste?Does the amount of sugar added to lemonade affect its resistance to spoilage?How does heating or cooling effect soda pop?Can you make candy at home? How much sugar, corn syrup and water do you need? What temperature should the mixture be heated to?Make a chemical volcano and explain what happens with different types of acid and bases.Explain how to make fireworks and explain the science behind them.Explain how dyes work on fabric/paper and then test different chemical compounds to see if they will dye fabric/paper.Explain how soap works and then test different chemical compounds to see if they can clean something dirty (dish soap, shampoo, hand soap, etc.)Make slime, silly putty, or jello with things from home using chemicals that you can find at home (baking soda and vinegar).What is the science of making a cake?What is the chemistry of soap making?What are the chemical reactions that occur when you cook food?Hacking photosynthesisCreating a battery out of fruits and veggies-Making a solar oven to cook with the energy of the sunMeasuring the pH levels of your favourite drinkDesigning a new way to filter waterHow to make glue from milkHow to make plastic from milkHow to make butter from creamWhat are different types of plastic, and how is each one made? Can they be recycled into new products?How Does a Battery Work? Check out this list of DIY Genius Hour ideas that could serve as a springboard for your next project: How to make a compassHow to make a water filterHow to build a wind turbineHow to make a solar ovenHow to build a solar cellHow to draw a mapHow to build an appHow to create a gameCreate with a 3D printerBuild a drone that can fly for 10 minutes and take pictures.Build a robotFigure out how to make a machine that can sort your laundry.Design a braille typewriter.Create a better way to clean up after your dog (or cat, or bird, etc.).Make it easier to find your keys.Make it easier to park when there is a lot of traffic.Make it so you dont need keys to get into your house or car.Come up with an easier way to charge all of your devices at once.Create a machine that can sort M&Ms by colour.Invent something that makes it easier for people with disabilities to do everyday tasks. A title page, inspiration page and checklist for students to use when setting up a Genius Hour project notebook.

Good genius hour ideas. Genius hour 4th grade. Genius hour guide. Genius hour ideas. Genius hour ideas for 4th graders.

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