



**Minnetonka High School**  
**International Baccalaureate**  
**Extended Essay Research Questions**  
**and**  
**CAS Project Titles**

**Class of 2023**



### Abdul-Field, Zaid

**EE Question:** To what effect does Kazuo Ishiguro's use of the sun in *Klara and The Sun* demonstrate the effects of faith on the capacity for rational thinking among its followers?

**CAS Project:** [Call of Cthulhu Campaign](#)

### Bickett, Rowan

**EE Question:** To what extent did the rise of the English empire influence the fall of the Dutch trading empire from the year 1630 to 1790?

**CAS Project:** Powerlifting Club/Team

### Burtus Molin, Elvira

**EE Question:** Is There an Economic Reason for the Pink Tax in the U.S?

**CAS Project:** Podcast and Blog Creation

### Chabin, Isabelle

**EE Question:** How does Carson McCullers utilize the motif of idolization in *The Heart Is a Lonely Hunter* to emphasize each character's own isolation?

**CAS Project:** Library Programs

### Cowan, Whitney

**EE Question:** How effectively does Jane Austen use her comedy to address societal generalizations and prejudices confronting women in the nineteenth century?

**CAS Project:** Tonka Slides

### Dawson, Reese

**EE Question:** To what extent did major global conflicts influence Western women's fashion in the 20th century?

**CAS Project:** Water Walk Mural

### Doten, Audrey

**EE Question:** What was the most effective tactic used by Jim Jones to control the followers of the Peoples Temple?

**CAS Project:** Pollinator Project

### Eldahshoury, Meleck

**EE Question:** What are the structural and economic factors contributing to systemic racism in the 1960s-1980s?

**CAS Project:** Minnetonka High School Culture Fair

### Engelhart, Morgan

**EE Question:** What was the most significant way Byzantine culture influenced the development of the Italian Renaissance?

**CAS Project:** Cards and Art for the Elderly

### Fahning, Griffin

**EE Question:** What strategic changes can Boeing implement in its operations and safety culture to regain customer confidence?

### Fair, Ermias

**EE Question:** How can we calculate the fractal dimension and what is the fractal dimension of Aruba's coastline?

**CAS Project:** Making a 2D Platformer

### Friese, Carter

**EE Question:** What were the most significant consequences of the United States War on Drugs following its establishment in the early 1970s to 2010?

**CAS Project:** Cooking Show

### Gaievska, Sofiya

**EE Question:** Why and with what impact did the pioneering impressionist artists of 1860-1886 Paris rebel against the Art Academy and its strict standards?

**CAS Project:** Animation Project

### Gammill, Nick

**EE Question:** In what ways and with what results did the German Army employ more modern tactics during the First World War?

**CAS Project:** Video Game Design

### Geldert, Molly

**EE Question:** How did the approaches to environmental conservation made by pre-colonial era Native Americans differ from those made by early twentieth century American conservationists?

**CAS Project:** Forming a Band and Performing Music with Friends

### Gilbertson, Mack

**EE Question:** To what extent does water management of golf courses impact environmental sustainability?

**CAS Project:** MHS Unified Earth Day Party

### Gregerson, Henry

**EE Question:** What were the main factors that aided in the plagues spread across Europe and Asia in the 14th century?

**CAS Project:** Summer Skiing for Humane Society

### Halloran, Declan

**EE Question:** What factors contributed to Taiwan's distinctive political culture during the period 1987–2012?

**CAS Project:** Piano Recital at The Waters

### Hendricks, Morgan

**EE Question:** To what extent did the actions and rhetoric of Indiana's State Legislature impact race relations between the years 1816 to 1878?

**CAS Project:** Training for the US Pro Cup Mountain Biking Race

### Hicks, Elena

**EE Question:** To what extent is the evolution of denim in 19th and 20th century America tied to the societal changes and economic developments that took place over this period?

**CAS Project:** Ski for Snow Fundraiser for Protect Our Winters

### Hoppe, QuQu

**EE Question:** How does J.R.R. Tolkien present an unorthodox representation of masculinity and femininity in The Lord of the Rings series?

**CAS Project:** 2023 Raise the Roof Fundraiser

### Hunter, Caleb

**EE Question:** How does prolonged exposure to heat affect the load-bearing structural integrity of a cylindrical concrete pillar?

**CAS Project:** Ski for Snow Fundraiser for Protect Our Winters

### Jones, Isabel

**EE Question:** To what extent did women's role in the field of architecture in the United States benefit from the passage of Title IX, from 1972-2010, and how successful were efforts to expand women's participation in the field of architecture?

**CAS Project:** Leader of YMCA Leaders Club

### Kahsay, Lydia

**EE Question:** In what way were the United Nations and various international bodies involved in the war between Ethiopia and Eritrea starting in 1998, and with what results?

**CAS Project:** MN Ethiopian-Eritrean Church Fellowship-Kids Saturday Evening Services

### Khurana, Maira

**EE Question:** How does the media response to the Charleston and Christchurch shootings demonstrate cultural contrasts and similarities between the United States and New Zealand?

**CAS Project:** Creating a Book of my Mother's Recipes

### Lamere, Brianna

**EE Question:** How does Atwood use Mary Whitney, a character who exists only in Grace's memory or imagination, as a source of comfort for Grace, and what is the effect?

**CAS Project:** Creating Chess Sets and Boards

### Lewis, Vivienne

**EE Question:** How did deception campaigns aid the Allies in Operation Overlord in 1944, and help them to liberate France from Nazi control?

**CAS Project:** Building Perennial Garden in my Backyard

### Lindgren, Frances

**EE Question:** How does the progress of women's Track and Field mirror the public perception of women in the United States, from 1895-1980?

**CAS Project:** Sponsor a DinoMight

### Louwagie, Sam

**EE Question:** How do varying levels of barley straw extract in eutrophic water samples affect the growth rate of Spirogyra algae?

**CAS Project:** Building a Sustainable, Wildlife-Friendly Backyard Pond

### Malaret, Gabi

**EE Question:** How Successful Has the United Kingdom's Government Been in Implementing Policy to Reduce Carbon Emissions Over the Past 15 Years?

**CAS Project:** CAS Club

### McClaren, Carmen

**EE Question:** In her collection of essays, Braiding Sweetgrass, how does Robin Wall Kimmerer use storytelling to encourage reciprocity between humans and the earth?

**CAS Project:** Creating a Nature Video with Original Background Music

### McClaren, Chloe

**EE Question:** How successful has dam reconstruction been for Lake Sturgeon populations in the St Croix and Kettle Rivers, Minnesota, from the 1950s to the present?

**CAS Project:** Creating a Nature Video with Original Background Music

### **Murphy, Sophia**

**EE Question:** To what extent did social reforms in the public health sector result in an improvement in health in the United States between 1900-1920?

**CAS Project:** Building a Little Gallery-Community Crafts

### **Nelson, Tony**

**EE Question:** To what extent were the impacts of the steam engine on Britain in the early 17th century to the early 18th century positive?

**CAS Project:** Unified Trash Scavenger Hunt

### **Nodsle, Anna**

**EE Question:** Beginning in the mid-nineteenth century, how significant was the impact of foreign influence on the downfall of the Qing empire?

**CAS Project:** Raising the Roof: Hope House Charity Showcase 2023

### **Northway, Kayla**

**EE Question:** How does Kazuo Ishiguro's novel Klara and the Sun serve as an allegory about what it means to be human?

**CAS Project:** Teaching Middle School Crochet Club How to Crochet a Valentine's Day Bag

### **Ramraj, Shreya**

**EE Question:** In what ways and with what results does amygdala volume in veterans get affected by Post Traumatic Stress Disorder(PTSD)?

**CAS Project:** Sevalaya Dance

### **Roesner, Juliana**

**EE Question:** When and how did climate change become a polarized political issue in the United States?

**CAS Project:** Tonka Slides

### **Rosenstein, Joe**

**EE Question:** How have the films The Deer Hunter and Apocalypse Now demonstrated the impact of war on soldiers' mental health?

**CAS Project:** Film Club

### **Rocha da Silva, Lucas**

**EE Question:** To what extent could the Allies' denazification effort in post-war Germany from 1945 to 1951 be considered a failure?

**CAS Project:** Food Blog

### **Snow, Isabela**

**EE Question:** How was the foreign policy in Nicaragua and El Salvador different between the Carter and Reagan administrations, and what was the effect of those differences?

**CAS Project:** Senior Cello Recital

### **Stone, Winnie**

**EE Question:** In Jeffery Eugenides' The Virgin Suicides, how does the perspective of the narrator(s) function to comment on feminist issues?

**CAS Project:** Making Greeting Cards

### Thibodeau, Sam

**EE Question:** What are the inhibitory effects on Escherichia coli K-12 bacterial growth with varying concentrations of the antibacterial component of turmeric, curcumin?

**CAS Project:** Cooking Show

### Tosun, Kerem

**EE Question:** What do perceptions of pederasty in ancient Greece reveal about the nature of sexuality as an accepted social construct?

**CAS Project:** Food Blog

### Tunks, Lilian

**EE Question:** What are common features between involuntary celibates, the American militia movement, and fundamentalist Christianity in the United States and what can these commonalities teach us about the modern far-right movement?

**CAS Project:** Making a Family Recipe Box

### Uchidiuno, Lucia

**EE Question:** What were the most significant impacts of women's involvement in the Black Panther Party between the years 1966-1982?

**CAS Project:** Cards for the Elderly

### Udupa, Ketav

**EE Question:** What factors most significantly contributed to the passage of the Immigration and Nationality Act of 1965 (Hart-Celler Act)?

**CAS Project:** Marine Conservation Scuba Trip in Croatia

### Vega, Leta

**EE Question:** How does Mary Shelley show humanity, dehumanization, and morality through the characterization and contrast of Victor Frankenstein and the Creature in Frankenstein or, the Modern Prometheus?

**CAS Project:** Train for Olympic Triathlon

### Waldron, Charlie

**EE Question:** How does the agricultural past of the United States impact sustainability moving forward?

**CAS Project:** Mountain Bike Building and Customization

### Way, Regan

**EE Question:** What caused the delay in development of anesthesia from its discovery in the 1840s to becoming standard procedure by the 1950s?

**CAS Project:** Crocheting Blankets for Donate

### Webber, Abby

**EE Question:** What is the role of Western medicine across history in regards to military power progression?

**CAS Project:** Feed My Starving Children

### Welsh, Lindsey

**EE Question:** Does Zymomonas mobilis, Saccharomyces cerevisiae or Escherichia coli produce the greatest quantity of ethanol from cafeteria waste at room temperature and the temperature that is optimal for its ethanol production?

**CAS Project:** Organizing a Food Drive for ICA

### Wenning, Macie

**EE Question:** How do Amanda Gorman and Langston Hughes utilize the motif of hope within their works to achieve their desired goal for their specific audiences?

**CAS Project:** CAS Club

### Williams, Luke

**EE Question:** To What Extent Was Debussy's Music Influenced by Asian Music?

**CAS Project:** Piano Recital at The Waters Senior Home

### Yetka, Kate

**EE Question:** In what ways did the Space Race affect the American school system from 1955-1975?

**CAS Project:** Learning to Run

**We're proud of you all!**