

**GATTACA Reflection Questions: Write your answers on a separate sheet of paper**

1. The film starts with two quotes that are 180 degrees apart. Here they are:

*"Consider God's handiwork; who can straighten what He hath made crooked?" – Ecclesiastes 7:13  
(The Bible)*

*"I not only think that we will tamper with Mother Nature, I think Mother wants us to." - Willard Gaylin  
(American Psychiatrist)*

**Explain the significance of these two quotes as they relate to this film.**

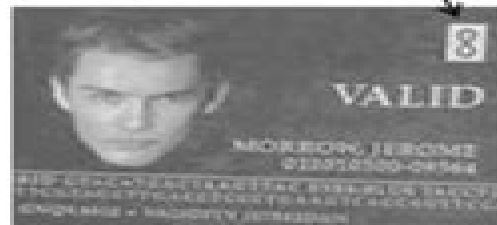
2. When Vincent was born and the DNA from his blood was analyzed, the nurse indicated the probability of a variety of things, (all bad) that would happen to Vincent. What things did Vincent have to overcome?

3. What was different about how Vincent's brother came into being? What was the significance of his being named "Anton"?

4. Why do you think the writer/director chose the name "GATTACA" for this film, and for the place where Vincent worked?

5. In the society of the future, people were classified as being "valid" or "invalid". Look up the real definitions of these words in the dictionary and comment how these words have been applied to members of society in the film. Do we have anything that resembles such labeling of people today? Explain.

**Note the symbol for infinity here. This implies the "infinite" potential that valids have.**



**Note the dagger symbol here. In classifying living things, a dagger next to an animal's name implies extinction. Note that IN-VALIDS are not even given a name.**



6. There were a variety of "valids" that were supposedly born superior, yet still had flaws. For each "valid" character pictured below, explain their shortcomings.

Anton



Irene



Jerome



Director



7. What was the purpose of the kiosk Irene went to with Vincent's hair? What were other people doing there? Would you use such a service if it was available?

8. Discuss at least FOUR preparations Vincent had to do every day to pass as Jerome Morrow at GATTACA. In each case, explain WHY he had to do each preparation.

# Reflection Gattaca Answers

**Erik Parens, Josephine Johnston**



## Reflection Gattaca Answers:

**The Chameleon Effect** Dietmar Froehlich, 2018-04-09 Architecture and film have many things in common Film narratives are embedded in scenes that visually support the story Sometimes architecture even performs the role of an actor Conversely film with its multifaceted changing atmospheres reveals new layers of architecture which outside the cinema would remain concealed In conclusion film as a mass medium influences the way architecture is perceived and its image in society Since the beginning of cinema architecture has formed a symbiosis with film With its systematic analysis this book offers a scientifically researched history of mutual influence starting with filmography as a typology of well known film sets through to the description of the chameleon effect between film and architecture

**The Edge of Evolution** Ronald Edwards, 2016-02-17 In this interdisciplinary work author Ron Edwards offers an innovative rereading of H G Wells The Island of Dr Moreau Edwards utilizes his twenty five years in biology and the ethics of animal research to examine the bioethical implications of Wells work and its relevance to contemporary scientific and philosophical discussions He tackles the myth of human exceptionalism the notion that we are fundamentally different from the rest of the animal kingdom We must view ourselves he argues not as from animals but as animals The approachable tone is suitable for a wide audience of the scientifically curious At the same time great care is given to providing an accurate and considered treatment of the technical aspects of the novel including the scientific plausibility of Dr Moreau s experiment Never before have Wells ideas been examined in such detail by an evolutionary biologist with the author s considerable experience The implications are far reaching touching on key topics in animal rights evolution and the relationship between religion and science Its approachability and dedication to technical accuracy produces a unique perspective on Wells classic Anyone with an interest in confronting some of the central issues of human existence through the lens of fiction will be rewarded with an original and thought provoking work

*Approaches to Teaching Wiesel's Night* Alan Rosen, Alan Charles Rosen, 2007 Elie Wiesel is an internationally known author human rights advocate and lecturer Night his first book 1956 in Yiddish 1958 in French 1960 in English a new English translation appeared in 2006 has become a classic memoir of a Jewish survivor of the Holocaust The seventeen essays of this volume in the MLA series Approaches to Teaching World Literature examine the historical cultural and literary contexts of Wiesel s book as well as strategies for teaching it in the classroom Part 1 Materials provides resources on the Jewish ghettos and concentration camps of World War II on the Jewish faith and religious practices on the genre of victims diaries on the critical reception of Night on Wiesel s other work and on available audiovisual materials Part 2 Approaches addresses many subjects among them Wiesel s narrative techniques the representation of Auschwitz the use of different languages the comparison of Wiesel with Primo Levi the problems of memory and bearing witness the Christian response to the Holocaust and the challenge of teaching a grim and painful text to students

Human Flourishing in an Age of Gene Editing Erik Parens, Josephine Johnston, 2019 The potential uses of CRISPR Cas9 and other gene editing technologies

are unprecedented in human history Altering human DNA however raises enormously difficult questions Some of these questions are about safety Can these technologies be deployed without posing an unreasonable risk of physical harm to current and future generations But gene editing technologies also raise other moral questions which touch on deeply held personal cultural and societal values In the new essays collected here an interdisciplinary group of scholars asks age old questions about the nature and well being of humans in the context of a revolutionary new biotechnology one that has the potential to change the genetic make up of both existing people and future generations *More Than Things* Paul Louis Metzger, 2023-08-08 In a world dominated by things we must work hard to account for one another's personhood Drawing a diverse set of thought leaders Paul Louis Metzger helps us navigate a pluralistic world through a personalist moral framework addressing issues such as abortion genetic engineering immigration drone warfare and more *Prenatal and Preimplantation Diagnosis* Joann Paley Galst, Marion S. Verp, 2015-08-26 This book aims to expand the awareness and understanding of the emotional sequelae of prenatal preimplantation diagnosis prenatal decision making pregnancy interruption for fetal anomaly multifetal reduction for high order multifetal pregnancies and preimplantation choices involving the selection of embryos Featuring a multi disciplinary approach it examines prenatal and preimplantation diagnosis from medical legal ethical and psychosocial perspectives Prenatal and Preimplantation Diagnosis is an excellent resource for obstetricians reproductive endocrinologists clinical geneticists genetic counselors and mental health professionals seeking to better support patients faced with difficult choices *Theory of Mind and Literature* Paula Leverage, 2011 Cover Title Copyright Contents Acknowledgments Introduction 1 Theory of Mind Now and Then Evolutionary and Historical Perspectives Theory of Mind and Theory of Minds in Literature Keith Oatley Social Minds in Little Dorrit Alan Palmer The Way We Imagine Mark Turner Theory of Mind and Fictions of Embodied Transparency Lisa Zunshine 2 Mind Reading and Literary Characterization Theory of the Murderous Mind Understanding the Emotional Intensity of John Doyle's Interpretation of Sondheim's Sweeney Todd Diana Calderazzo Distraction as Liveliness of Mind A Cognitive Approach to Characterization in Jane Austen Natalie Phillips Sancho Panza's Theory of Mind Howard Mancing Is Perceval Autistic Theory of Mind in the Conte del Graal Paula Leverage 3 Theory of Mind and Literary Linguistic Structure Whose Mind's Eye Free Indirect Discourse and the Covert Narrator in Marlene Streeruwitz's *Nachwelt* Jennifer Marston William Attractors Trajectories and Agents in Racine's *Racine* Allen G Wood The Importance of Deixis and Attributive Style for the Study of Theory of Mind The Example of William Faulkner's Disturbed Characters Ineke Bockting 4 Alternate States of Mind Alternative Theory of Mind for Artificial Brains A Logical Approach to Interpreting Alien Minds Orley K Marron Reading Phantom Minds Marie Darrieussecq's *Naissance des fantômes* and *Ghosts* Body Language Mikko Keskinen Theory of Mind and Metamorphoses in *Dreams* Jekyll Hyde and *The Metamorphosis* Richard Schweickert and Zhuangzhuang Xi Mother Daughter Mind Reading and Ghostly Intervention in Toni Morrison's *Beloved* Klarina Priborkin 5 Theoretical Philosophical

Political Approaches      **STEAM Meets Story** Gloria D. Campbell-Whatley, Diane Rodriguez, Jugnu Agrawal, 2021 This innovative STEAM guide will help general and special education teachers to increase effective instruction with adolescents grades 5-10. The authors show teachers how to link STEM concepts with popular fiction and film selections as a catalyst to launch student interactions, discussions, projects, and investigations. This approach will promote problem solving and reasoning skills by initiating the scientific process rather than simply presenting established facts. The book includes a wealth of lesson plans that connect abstract STEM ideas to realistic experiences that students encounter. Sample lessons call on students to produce drawings and models that move STEM to STEAM. Grounded in popular film and the 31 books most read by adolescent students, the text includes teaching strategies found to be effective with traditionally underserved students and those with disabilities. **Book Features:** Standards-based STEM lessons are interrelated and interwoven with writing, reading, speaking, and other skills. Practical ideas and hands-on activities for engaging adolescents in both traditional and virtual environments. Guidance for working with diverse populations such as students with different abilities, culturally and linguistically diverse students, translingual students, and transnational students. Includes full lessons, templates, and handouts.      Science

John Michels (Journalist), 2009      **Who Owns You?** David Koepsell, 2011-09-23 Who Owns You is a comprehensive exploration of the numerous philosophical and legal problems of gene patenting. Provides the first comprehensive book-length treatment of this subject. Develops arguments regarding moral realism and provides a method of judgment that attempts to be ideologically neutral. Calls for public attention and policy changes to end the practice of gene patenting.      From Madman to Crime Fighter

Roslynn D. Haynes, 2017-09-13 From Madman to Crime Fighter is the most comprehensive study of the image of the scientist in Western literature and film.      *Gender, Race, and American Science Fiction* Jason Haslam, 2015-05-08 This book focuses on the interplay of gender, race, and their representation in American science fiction from the nineteenth century through to the twenty-first and across a number of forms including literature and film. Haslam explores the reasons why SF provides such a rich medium for both the preservation of and challenges to dominant mythologies of gender and race. Defining SF linguistically and culturally, the study argues that this mode is not only able to illuminate the cultural and social histories of gender and race but so too can it intervene in those histories and highlight the ruptures present within them. The volume moves between material history and the linguistic nature of SF fantasies from the specifics of race and gender at different points in American history to larger analyses of the socio-cultural functions of such identity categories. SF has already become central to discussions of humanity in the global capitalist age and is increasingly the focus of feminist and critical race studies. In combining these earlier approaches, this book goes further to demonstrate why SF must become central to our discussions of identity. It writes large of the possibilities and failings of the human past, present, and future. Focusing on the interplay of whiteness and its various others in relation to competing gender constructs, chapters analyze works by Nathaniel Hawthorne, Mary E. Bradley Lane, Edgar Rice Burroughs, Philip Francis Nowlan, George S.

Schuyler and the Wachowskis Frank Herbert William Gibson and Octavia Butler Academics and students interested in the study of Science Fiction American literature and culture and Whiteness Studies as well as those engaged in critical gender and race studies will find this volume invaluable *The Science Teacher* ,2005 SCC Library has 1964 cur

**Imagining Surveillance** Peter Marks,2015-06-23 Presents the first full length study of the depiction and assessment of surveillance in literature and film

**Molecular biology of the cell** ,2003

**Human Dignity in the Judaeo-Christian Tradition** John Loughlin,2019-07-11 Dignity is a fundamental aspect of our lives yet one we rarely pause to consider our understandings of dignity on individual collective and philosophical perspectives shape how we think act and relate to others This book offers an historical survey of how dignity has been understood and explores the concept in the Judaeo Christian tradition World renowned contributors examine the roots of human dignity in classical Greece and Rome and the Scriptures as well as in the work of theologians such as St Thomas Aquinas and St John Paul II Further chapters consider dignity within Renaissance art and sacred music The volume shows that dignity is also a contemporary issue by analysing situations where the traditional understanding has been challenged by philosophical and policy developments To this end further essays look at the role of dignity in discussions about transhumanism religious freedom robotics and medicine Grounded in the principal Christian traditions of Catholicism Orthodoxy Anglicanism and Protestantism this book offers an interdisciplinary and cross period approach to a timely topic It validates the notion of human dignity and offers an introduction to the field while also challenging it

**Guide to U.S. Health and Health Care Policy** Thomas R. Oliver,2014-09-03 The contentious passage of the Affordable Care Act in 2010 highlighted the incredible complexity and controversy surrounding health care in the United States While the U S federal government does not provide universal health care it has an extremely wide reach when it comes to the health of its citizenry From important scientific and medical research funding to infectious disease control and health services for veterans and the elderly the pathway to legislation and execution of health policies is filled with competing interests and highly varied solutions The Guide to U S Health and Health Care Policy provides the analytical connections showing researchers how issues and actions are translated into public policies and institutions for resolving or managing healthcare issues and crises The Guide highlights the decision making cycle that requires the cooperation of federal and state governments business and an informed citizenry in order to achieve a comprehensive approach to advancing the nation s healthcare policies Through 30 topical chapters the book addresses the development of the U S healthcare system and policies the federal agencies and public and private organizations that frame and administer those policies and the challenges of balancing the nation s healthcare needs with the rising costs of medical research cost effective treatment and adequate health insurance Additionally the book comprehensively addresses significant disparities that exist in the U S system and the challenges to public health posed by our increasingly connected world Taking a comprehensive approach the Guide traces policy initiatives across time and takes into account the most recent scholarship Part One

Evolution of American Health Care Policy Looks at the emerging and expanding role of government in the health care sector and the position the U S occupies today as the only advanced industrial nation without universal health care Part Two Government Organizations that Develop Fund and Administer Health Policy 1789 Today Examines the role each branch of government plays in the forming executing and regulating health care policies The authors examine the origins organization budget and function of major government organizations including the FDA CDC and VA An exploration of legal oversight and the roles states play in the health sector round out this section Part Three Contemporary Health Policy Issues Goals and Initiatives 1920s Today Explores the wide range of players in the health care sphere and the role the government plays particularly in funding them Special attention is paid to policy issues surrounding medical research and medical professions This section also looks at the ethical issues in play when making health policy and the inequalities that have plagued the U S health care system Part Four Contemporary Health Policy Issues People and Policies 1960s Today This part of the book looks in depth at health disparities in the U S health challenges particular to specific groups mental health obesity and the influence of interest groups Part Five U S Response to Global Health Challenges 1980s Today The last section of the book looks beyond the borders of the United States and the serious challenges posed by our increasingly connected world **On Transhumanism** Stefan Lorenz Sorgner,2020-12-15 Transhumanism is widely misunderstood in part because the media have exaggerated current technologies and branded the movement as dangerous leading many to believe that hybrid humans may soon walk among us and that immortality achieved by means of mind uploading is imminent In this essential and clarifying volume Stefan Lorenz Sorgner debunks widespread myths about transhumanism and tackles the most pressing ethical issues in the debate over technologically assisted human enhancement On Transhumanism is a vital primer on the subject written by a world renowned expert In this book Sorgner presents an overview of the movement s history capably summarizing the twelve pillars of transhumanist discourse and explaining the great diversity of transhumanist responses to each individual topic He highlights the urgent ethical challenges related to the latest technological developments inventions and innovations and compares the unique cultural standing of transhumanism to other cultural movements placing it within the broader context of the Enlightenment modernity postmodernity and the philosophical writings of Nietzsche Engagingly written and translated and featuring an introduction for North American readers this comprehensive overview of the cultural and philosophical movement of transhumanism will be required reading for students of posthumanist philosophy and for general audiences interested in learning about the transhumanist movement *Religion Index One* ,2001 The Disability Studies Reader Lennard J. Davis,2006 The second edition of The Disability Studies Reader builds and improves upon the classic first edition which has sold well over 6000 copies since 1999 As a field disability studies burst onto the scene across the social sciences and humanities in the 1990s and the first edition of the reader gathered the best work that had been written on the subject including essays by famous authors such as Susan Sontag and Erving Goffman The new edition is more

global in its coverage and adds material on genetic testing the human genome queer studies and issues in developing countries The size of the audience has grown since the first edition s publication and the second edition s new material will make it even more useful for courses on the subject Courses on the subject have mushroomed in the past ten years and can now be found across the social sciences humanities and behavioral sciences

## The Enigmatic Realm of **Reflection Gattaca Answers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Reflection Gattaca Answers** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

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