

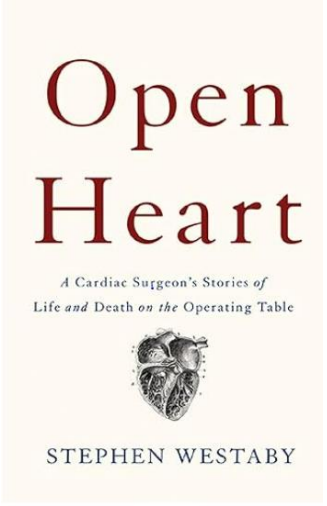


2025–2026 ACADEMIC YEAR
GRADE 11 BIOLOGY PROJECT

NAME OF THE PROJECT: "THE TRUTH BEHIND OPEN HEART"

STUDENT'S NAME AND SURNAME:

CLASS :

Grade	Content	Acquisition	Duration	Assessment
11	 <p>The student reads the book "Open Heart" by Dr. Stephen Westaby and prepares a detailed project based on the themes, cases, and medical insights presented in the book.</p>	<ol style="list-style-type: none">1. Understands the structure and functions of the heart and the effects of open-heart surgery.2. Recognizes the techniques and tools used in surgery.3. Gains knowledge about heart diseases and treatment methods.4. Understands medical ethics and the patient-doctor relationship.5. Develops critical thinking skills by analyzing medical cases.6. Improves the ability to organize and present information effectively.	1 Academic year	The criteria in the rubric will be used for both the report and the presentation.



Dear students,

Through this project, you will read "**Open Heart**" by Dr. Stephen Westaby to gain knowledge about the basic structures of the brain, the challenges of brain surgery, and the human aspects encountered in medical practice.

Project Steps

A. Research

- Read the book "**Open Heart**" by Dr. Stephen Westaby carefully.
- Take notes on key points about brain anatomy, surgical cases, and ethical challenges.
- Gather additional information on brain functions and neurosurgery basics from reliable sources.

B. Research Report

- Write a clear and organized report including:
 - Introduction (purpose and overview)
 - Summary of the book. It should include the following:
 - Explanation of brain anatomy and functions
 - Detailed case study from the book
 - Discussion on the challenges faced by neurosurgeons
 - Conclusion and personal reflections

Important Note:

Your report will be checked via a program. Make sure you do not copy and paste information directly from sources. This position will directly affect your mark. So, summarize the ideas in your own words to show your understanding. If you include a direct quote, make sure to cite the source properly.

Projects taken directly from AI will not be accepted.

Research Report Content (For Book Analysis)

- Cover Page: Project title, student's name, class, submission date, and teacher's name.
- Table of Contents: List of report sections and page numbers.
- Introduction: General information about the book (author, topic, genre) and the purpose of the report.
- Book Summary: A brief overview of the main topic, key themes, and important parts of the book.
- Analysis of Main Topics:
 - Important concepts covered in the book (e.g., heart structure, surgical procedures)
 - Explanation of selected cases or examples from the book
 - Discussion of challenges encountered and ethical issues emphasized in the book
- Visuals: Pictures, diagrams, or charts supporting the book's content.
- Glossary: Definitions of important terms used in the book.
- Conclusion: Overall evaluation of the book and your reflections.
- References: List of the book and any other sources used in the report. (If it is necessary)
- Footnotes and Quotations: Properly indicate any direct quotes or additional notes from the book.



Book Analysis Project Report Guidelines

- Your report should be at least **12 pages** and no more than **18 pages** long.
- Visuals used in your report (book covers, important excerpts, author photos, charts, etc.) should not exceed 5 pages in total.
- Each section or topic must have a clear and meaningful title.
- Be sure to include your comments and analyses related to the book's content.
- Expert opinions are not mandatory, but you may include them to add depth to your project if you wish.
- Both digital (Word or PDF) and printed copies of the report must be submitted.
- Use Times New Roman, font size 12, and double-spacing throughout the text.
- The report should be organized, clean, and easy to follow.
- Handwritten text is not accepted; all work must be prepared using a computer.
- Properly cite any direct quotes from the book using footnotes or quotation marks.
- On the last page of the report, include a paragraph of about **150-200 words** containing your overall evaluation and personal reflections about the book and the project. In this paragraph, we expect you to briefly and sincerely share your general opinion about the book, what you learned from the project, the importance of the book, and your personal thoughts.

FIRST CHECK: (Planning Phase)

- ✓ Carefully read *Open Heart* by Dr. Stephen Westaby.
- ✓ Identify heart surgery cases, cardiovascular diseases, and how they relate to human body systems.
- ✓ Take notes on the ethical dilemmas, emotional challenges, and patient-surgeon relationships described by the author.
- ✓ You must read at least the first 200 pages, write a summary, and answer the questions below.

SECOND CHECK: (Production Phase)

Prepare your book analysis report:

- ✓ You must finish reading the entire book.
- ✓ Provide a brief biography of the author, Dr. Stephen Westaby.
- ✓ Summarize the main theme and general content of the book.
- ✓ Give examples of surgical interventions related to the heart and circulatory system.
- ✓ Explain the diseases mentioned in the book (e.g., heart failure, valve disorders, cardiomyopathy, congenital defects) and their effects on the circulatory system.
- ✓ Reflect on the ethical dilemmas and emotional burdens the surgeon experiences while making decisions.
- ✓ Connect examples from the book with topics you've learned in biology class (e.g., heart chambers, blood flow, oxygen transport, valves, circulation types).
- ✓ Add visuals such as diagrams of heart structures, surgical tools, or case illustrations.

Prepare a Presentation:

- ✓ Include impactful quotes from the book.
- ✓ Add visuals such as diagrams of heart structures, surgical tools, or case illustrations.
- ✓ "Create informative boxes like 'Which Part of the Heart?' or 'Which Disease, What Effect?'"
- ✓ Design a layout that combines both the scientific and human side of the story.



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PROJECT SUBMISSION

Submit your written book analysis report. Your work should reflect both a scientific and human perspective, as well as your personal understanding. Be ready to present your project briefly and answer questions.

REPORT ASSESSMENT RUBRIC (Total 50 Points)

Evaluation Criteria	Description	Points
Introduction of the Book	Provides information about the author (Dr. Stephen Westaby) and summarizes the book's topic.	5
Case and Disease Analysis	Surgical examples and diseases are explained accurately, clearly, and in detail.	15
Connection to Biology	The contents of the book are related to topics covered in biology class.	10
Ethical and Emotional Reflection	The ethical dilemmas and emotional situations experienced by the surgeon are analyzed.	10
Writing Style and Organization	Correct grammar, clear and fluent expression, and well-organized structure.	5
Use of Visual Material	The poster/brochure/magazine is used effectively during the presentation and supports the spoken content.	5
TOTAL		/50

PRESENTATION ASSESSMENT RUBRIC (Total: 50 Points)

Evaluation Criteria	Description	Points
Content & Clarity of Presentation	The topic is clearly explained in the student's own words. Key messages from the book are presented accurately and effectively.	15
Subject Mastery	The student demonstrates a strong understanding of the book's content, medical cases, and related biology topics. Explanation goes beyond memorization.	10
Q&A Performance	The student answers questions thoughtfully, accurately, and with sufficient explanation.	25
TOTAL		/50

PERVİN ÖZPEK ASLI KAYGISIZ
Biology Teachers

YELDA KARAGÜZEL
Science Department Head

ESRA ÖZTERMİYEÇİ
Principal



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