



Body Systems Project: How Does Your Body Work?

Your Task:

- Explore the musculoskeletal, hormonal, circulatory, and nervous systems.
- Demonstrate your understanding of the basic structure and functions of the musculoskeletal, hormonal, circulatory, and nervous systems.
- Apply your understanding to explain how they work together to allow your body to complete everyday tasks.

Why?

- To have an awareness of the complex nature of your inner workings and to be able to explain how your body works.

What to do for your Project:

1) Explore what you already know: /10 marks

- Being in grade 6, you probably already have some knowledge about each of these body systems already; explain what you “know” about these body systems.
- What would you like to learn more about?
- Pose a research focus for each of the body systems.

2) Research: /60 marks total

- For **each** body system (musculoskeletal, hormonal, circulatory, and nervous systems)
 - a. you must create a 1 page information card or poster that contains: /10 marks each
 - i. Basic Structure with major parts labeled in a diagram
 - ii. A summary of how each system works in your body
 - 1. its function, how does it work?
 - 2. What other body systems does it interact with? How does it interact with them?

- b. Answer your research questions /5 marks each

3) Chose an everyday activity /15 marks total

- Choose an everyday activity such as: walking, running, picking something up, eating, playing sports, completing your homework
- You must explain in a step by step manner how the different systems work together to allow you to complete the task. Your explanation must include:
 - a. A labeled diagram or series of labeled diagrams
 - b. A step by step breakdown/explanation of how the body systems work together.



4) Reflection

/20 marks

Look back at section #1, how has your understanding of the different body systems changed?

- Summarize how your understanding of each body system has changed /10 marks
 - a. What have you learned?
 - b. What misconceptions did you have (things you thought you knew, but were actually incorrect)

- On a separate typed page, give yourself a mark out of 5
 - a. List all the reasons why you deserve this mark, also create a list of what you could improve on
 - b. Give your partner a mark out of 5, list and explain the reasons why they deserve that mark and what they could improve on.

5) Make your poster eye-catching, colorful and creative

/15 marks

- Ensure you have a logically organized poster and project
- Your diagrams should be relevant, in color and labeled clearly by you (they cannot be already labeled from the internet), each diagram must also have a relevant caption
- You should have a relevant title and subtitles for your poster
- The text should be easy to read, paragraphs should be separated (not whole pages simply glued to the sheet)

Due Date: _____

Research Links- use these links to help you, you may use other links as well.

- 1) <http://kidshealth.org/kid/htbw/>
- 2) <http://www.factmonster.com/ipka/A0774536.html>
- 3) <http://www.mananatomy.com/body-systems>
- 4) <http://www.livescience.com/37009-human-body.html>
- 5) <https://www.youtube.com/playlist?list=PLPig-gFpaSj69pxYdnfpuC01hcrNMjHT1>
- 6) <https://www.youtube.com/watch?v=FBnBTkcr6No>
- 7) <http://www.innerbody.com/image/skelfov.html>
- 8) <http://www.innerbody.com/image/musfov.html>
- 9) <http://www.innerbody.com/image/cardov.html>
- 10) <http://www.innerbody.com/image/endoov.html>
- 11) <http://www.innerbody.com/image/nervov.html>



MARKS:

Part 1	Already Know	/10 marks
Part 2	Body systems Research	
	Musculoskeletal	/15 marks
	Hormonal System	/15 marks
	Nervous System	/15 marks
	Circulatory System	/15 marks
Part 3	Everyday Activity	/15 marks
Part 4	Reflection	/20 marks
Part 5	Poster	/15 marks
Total		/130 marks

Content: 1) the basic structures and functions of body systems: **musculoskeletal; reproductive; hormonal; nervous** 2)**heterogeneous mixtures** 3) **mixtures** — separated using a difference in component properties

QUESTIONING AND PREDICTING

SC-QP-2 *Make observations in familiar or unfamiliar contexts*

NM – A – M- E

PLANNING AND CONDUCTING

SC-PC-1 *Explore and pose questions that lead to investigations*

NM – A – M- E

SC-PC-6 *Use equipment and materials safely, identifying potential risks*

NM – A – M- E

PROCESSING AND ANALYZING DATA& INFO

SC-PA-4 *Compare data with predictions and develop explanations for results*

NM – A – M- E

EVALUATING

SC-E-4 *Identify some of the assumptions and given information in secondary sources*

NM – A – M- E

SC-E-5 *Demonstrate an understanding and appreciation of evidence*

NM – A – M- E

APPLYING AND INNOVATING

SC-AI-1 *Contribute to care for self, others, and community through personal or collaborative approaches*

NM – A – M- E

SC-AI-2 *Co-operatively design projects*

NM – A – M- E

COMMUNICATING

SC-COM-1 *Communicate ideas, explanations, and processes in a variety of ways*

NM – A – M- E



Sikh Academy – Grade 6

Mr Laura

Name: _____

Date: _____

COMPREHEND AND CONNECT

LA-COC-2 Apply appropriate strategies to comprehend written, oral, and visual texts, guide inquiry, and extend thinking *NM – A – M- E*

LA-COC-7 Construct meaningful personal connections between self, text, and world *NM – A – M- E*

LA-COC-12 Exchange ideas and viewpoints to build shared understanding and extend thinking. *NM – A – M- E*

CREATE AND COMMUNICATE

LA-CRC-1 Use writing and design processes to plan, develop, and create engaging and meaningful literary and informational texts for a variety of purposes and audiences *NM – A – M- E*

LA-CRC-2 Assess and refine texts to improve their clarity, effectiveness, and impact according to purpose, audience, and message *NM – A – M- E*

LA-CRC-3 Use an increasing repertoire of conventions of English spelling, grammar, and punctuation. *NM – A – M- E*