



# BODY SYSTEMS BOOK

## Overview

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Book: *The One and Only Ivan* by Katherine Applegate

Grades 6-8

The body systems of a gorilla, elephant, and dog work in a very similar manner to that of the human body. Students will draw relationships between scenes in the story and the way our bodies work. Students will create a book that illustrates the concept.

## Standards

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MS-LS-1-3	Use argument supported by evidence for how the body is a system of interacting subsystems composed of groups of cells.
RST.6-8.7	Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually (e.g. in a flowchart, diagram, model, graph, or table).

## Objectives

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Students will write six paragraphs, each one explaining one of the main body systems.

Students will create a diagram that illustrates the function of each system.

Students will find instances of reference to these body systems in the story.

Students will complete a book containing all of the above information.

## Materials Required

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Book *The One and Only Ivan* by Katherine Applegate

Drawing paper and notebook paper

Colored pencils

Pencils

## Procedure

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1. Review the information about the main body systems: circulatory, excretory, digestive, respiratory, muscular, and nervous system.
2. Have students write these headings, one on each piece of paper
3. Students write a paragraph explaining each of the systems.
4. Students draw a simple diagram that illustrates the function of each of the systems.
5. Students cite a scene in the book where the system was portrayed.  
(Examples: digestive –eating fruit, excretory-poop balls, respiratory – Stella breathing heavily after exertion, muscular – trunk embrace, nervous system-not being able to fall asleep, circulatory – Bob feels Ivan’s heartbeat.
6. When pages are complete, staple them together in book format.
7. Students may also want to design a cover for their books.

## Extensions

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1. Ask students to keep a journal throughout a day. Make note of all the times you are aware of the systems working in your body.
2. Research body systems that are specially adapted for certain animals. How does blood get up to the head of a giraffe? How do lizards get warm? How do jaguars run so fast? How do whale bones survive the pressure deep in the ocean?

## Rubric

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<b>RUBRIC</b>				
	<b>Exceeds (3)</b>	<b>Meets (2)</b>	<b>Partially Meets (1)</b>	<b>Does Not Meet (0)</b>
REQUIREMENTS	Meets all of the requirements for the project.	Meets most of the requirements for the project.	Meets some of the requirements for the project.	Does not meet the requirements for the project.
FACTS	All facts were stated correctly in the paragraphs	Most of the facts were stated correctly in the paragraphs	Some facts were stated correctly in the paragraphs	No facts were stated correctly in the paragraphs
DIAGRAMS	All diagrams correctly illustrated the body system portrayed	Most diagrams correctly illustrated the body system portrayed	Some diagrams correctly illustrated the body system portrayed	No or very few diagrams correctly illustrated the body system portrayed
STORY REFERENCES	All references to the story correctly illustrated the matching body system	Most references to the story correctly illustrated the matching body system	Some references to the story correctly illustrated the matching body system	No references to the story correctly illustrated the matching body system
Total N/12				

*STEM Read and SmartSpace@NIU are part of Northern Illinois University's STEAM Works Initiative.*

