

# Connecting the Curriculum and Collection at Gov. Thomas Johnson High School

## WORKSHEET 2

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Subject/Category: 500s Natural Sciences and Mathematics

Total number of items in 500s	Number of items per student	Percentage of entire library collection	Recommended percentage	Average copyright date	Average years old	Acceptable Age	Difference
1,036	1.6	4.88%	5-10%	1991	20	5	-15

### OBSERVATIONS:

- Repeated problems with gender-biased language, minority representation and inclusiveness.
- Many texts written at advanced levels without the same friendly features used in more modern texts.
- Information that is no longer correct, relevant or representing the modern mathematical and scientific standards.
- Outdated texts taking up room, overwhelming access to newer, more relevant and interesting texts.
- Multiple copies of texts with old copyrights.
- Multiple sets of outdated resources.
- Few outdated or poorly circulated books from the 1970s/1980s seem to remain. But many from the 1930s, 1940s, 1950s and 1960s.
- With growing emphasis on science and math skills, curriculum and literacy, this collection will become increasingly more important.

### CATEGORY BREAKDOWN

DEWEY	Number of holdings	Percentage of collection	Circulation this year	Average copyright date	Curriculum relevance and grade level	Level of support needed from library materials	Specifics
500 Pure Sciences	177	0.83	7	1996	Chemistry and Physics Introduction Biology Chemistry Environmental Science Earth Science System Physics	Basic	Several sets of outdated science/technology encyclopedias should be removed.

					AP Biology AP Physics AP Chemistry AP Environmental Science (9-12)		
510 Mathematics	89	0.42	7	1989	Algebra Calculus Geometry Trigonometry Statistics (9-12)	Instructional	Extreme weeding of old titles A FEW SAMPLES: The World of Mathematics (1956, multiples) A Long Way from Euclid (1963) Handbook of Mathematical Tables (1962, multiples) The Development of Mathematics (1945) I Hate Mathematics Book (1975) Mathematics in Fun and in Earnest (1958) Number, the Language Of Science (1954) Mathematics in Everyday Things (1959)
520 Astronomy and Allied Sciences	62	0.29	6	1991	Earth Science (minor connection) (9-12)	Minimal Student Interest	Titles from the 1950s and 1960s still need to be weeded.
530 Physics	69	0.33	11 (1 related to videos)	1998	Chemistry and Physics Introduction Chemistry Physics AP Physics AP Chemistry (9-12)	Instructional	On the Various Forces of Nature (1957) Light, Visible and Invisible (1958) Great Experiments in Physics (1959) Light, Our Bridge to the Stars (1964)

DEWEY	Number of holdings	Percentage of collection	Circulation this year	Average copyright date	Curriculum relevance and grade level	Level of support needed from library materials	Specifics
540 Chemistry and Allied Sciences	72	0.34	11 (4 related to DVDs, 4 related to videos)	1994	Chemistry and Physics Introduction Chemistry Physics AP Physics AP Chemistry (9-12)	Instructional	World of Chemistry Series (1990) The Architecture of Molecules (1964) How to Know Minerals and Rocks (1955) A Field Guide to Rocks and Minerals (1960) Minerals: Their Identification, Uses and How to Collect Them (1953)
550 Sciences of Earth and other Worlds	95	0.45	2 (1 related to DVDs, 1 related to videos)	1985	Environmental Science Earth System Science AP Environmental Science (10-12)	Basic	Down to Earth (1936) Survey of Science, Earth Science series (1990) Conversation with the Earth (1953) Dictionary of Geological Terms (1962) Celebrated American Caves (1955) Weather: Air Masses, Clouds, Rainfall, Storms, Weather Maps (1957)
560 Paleontology	22	0.10	1	1972	Earth System Science AP Biology AP Environmental Science (10-12)	Basic	America Before Man (1953) The Ages of the Earth (1966) Fossils, A Guide to Prehistoric Life (1962) Life of the Past (1953) Ancient Plants and the World They Lived In (1947) Dinosaurs: Their Discovery and Their World (1961)

DEWEY	Number of holdings	Percentage of collection	Circulation this year	Average copyright date	Curriculum relevance and grade level	Level of support needed from library materials	Specifics
570 Life Sciences	232	1.09	30 (2 related to DVDs, 9 related to videos)	1987	Biology Earth System Science AP Biology AP Environmental Science (10-12)	Instructional	The Science of Life (1963) Living Laboratory (1960) Caves of the Great Hunters (1962) The Men of the Old Stone Age (1959) Everyday Life in Prehistoric Times (1959) Patterns of Culture (1934) Story of People (1953) Four Ways of Being Human (1956) Profiles in Ethnology (1963) First Came the Family (1958) A Million Years of Man (1963)
580 Botanical Sciences	45	0.21	21 (6 related to videos)	1982	Biology Earth System Science AP Biology AP Environmental Science (10-12)	Instructional	Plant Life (1959) Plants We Eat (1955) A Field Guide to Ferns and Their Related Families (1956) An Illustrated Manual of California Shrubs (1939)
590 Zoological Sciences	173	0.81	18 (1 related to DVD, 1 related to videos)	1993	Biology Earth System Science AP Biology AP Environmental Science (10-12)	Instructional	Spiders, Snakes and Other outcasts (1965) Wonders of Animal Migration (1964) Animal Diversity (1964) Fieldbook on Animals in the Winter (1959) Animal Behavior (1958) American Spiders (1949)

**RECOMMENDED ADDITIONS (Found in H.W. Wilson with reviews)**

DEWEY	TITLE	AUTHORS	PUBLISHER	COPYRIGHT	READING <i>GRADE</i> RANGE
577	Eco-tracking: on the trail of habitat change	<u>Shaw, Daniel</u> ; <u>Keithley, Melanie</u> , il; <u>MacLake, Jon Livingston</u> , il	University of New Mexico Press	2010	6-9
576.8	Evolution Revolution	Winston, Robert M. L.	DK Pub	2009	5-8
576.8	Evolution: the story of life	Palmer, Douglas; Barrett, Peter, il	University California Press	2009	9-Adult
597	Project Seahorse	Turner, Pamela	Houghton Mifflin Harcourt	2010	6-12
599.93	Modern humans	Steffoff, Rebecca	Marshall Cavendish Benchmark	2009	7-10
576.5	Genetics: from DNA to designer dogs	Simpson, Kathleen	National Geographic	2008	4-7
576.5	The Stuff of Life: a graphic guide to genetics and DNA	Schultz, Mark; Cannon, Zander and Cannon, Kevin, il	Hill and Wang	2009	Graphic novel
551.6	Fixing the Sky: the checkered history of weather and climate control	Fleming, James R.	Columbia University Press	2010	9-Adult
515	The Manga Guide to Calculus	Kojima, Hiroyuki; Togami, Shin	No Starch Press	2009	Graphic novel 9-12
510	Professor Stewart's hoard of Mathematical Treasures (Sequel to Professor Stewart's cabinet of mathematical curiosities, 2009)	Stewart, Ian	Basic Books	2010	9-Adult
510	Mathematics 1001: absolutely everything that matters in mathematics in 1001 bite-sized explanations	Elwes, Richard	Firefly Books	2010	9-Adult
DVD 576.8 LIF	Life after People: Welcome to earth: population: 0	A & E television networks		2008	9-Adult
DVD	Fractals: hunting the hidden dimension	NOVA	WGBH Educational Foundation	2009	9-Adult

(ISBN, cost, pages, rationale, etc. will be added later)

