



### Real number system

Identifying integers, rational numbers, and real numbers; performing the four operations on them; developing rules for positive and negative numbers



### Algebra & Equations

Expressing real-life situations in algebraic terms; Solving linear equations in one variable; Forming linear equations in one variable to solve problems



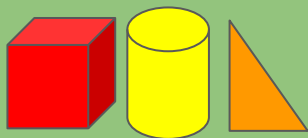
### Ratio, Rate & Speed

Building understanding between ratio, rate and speed; Solving real-life problems involves ratio, rate and speed



### Percentage

Expressing one quantity as a percentage of another; Solving word problems involving discounts and sales tax.



### Geometry

Identifying the different types of angles and quadrilaterals and explore their properties; Investigating and solving problems involving the sum of interior angles of an n-sided polygon



### Number patterns

Understanding the idea of a sequence; Finding the formula for the general term of a sequence



### Coordinates & Linear Graphs

Defining linear relationships between two variables



### Inequalities

Representing linear inequality on a number line; Apply linear inequalities to solve word problems in everyday life



### Proportions & Data Handling

Understanding direct and inverse proportion ideas; Using different data-collection methods



### Probability of Simple & Combined Events

Calculate the probability of a simple and combined events using a possibility or tree diagram

$$2 \times 10^9$$

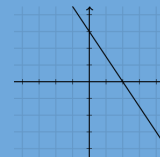
$$2.000000000$$

1 2 3 4 5 6 7 8 9

$$2,000,000,000$$

### Exponents & Scientific Notation

Connecting with decimals; harnessing the tool of bar modeling



### Linear Equations in Two Variables

Plotting & solving linear equations in two variables



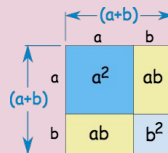
### Irrational Expressions

Investigating the radical law of irrational expressions

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

### Quadratic Equations

Students will be able to solve quadratic equations using 4 different methods: graphing, factorization, quadratic formula, and completing the square



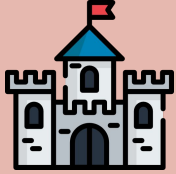
### Expansion & Factorization

Expressing & solving quadratic equations using factorization



### Congruence & Similarity

Understanding the difference between congruence and similarity



### Medieval Europe

Learning about the Roman Empire, Christianity and Feudalism in Medieval Times



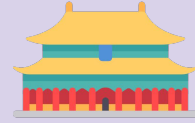
### Islam in Medieval Times

Learning about Islam, Muslim advancements, Muslim Empires, and the Crusades during Medieval Times.



### West African Kingdoms

Assessing the impacts of West African Culture and Kingdoms



### Imperial China

Assessing the impacts of Imperial China's political developments, economic growth, and technological advancements



### Japan in Medieval Times

Assessing the impacts of Japan's political developments and cultural influence



### Civilizations of the Americas

Learning about the Maya, Aztec, and Inca Empires in the Americas



### The Mongol Empire

Assessing the impacts of the Mongol Empire and the growing exchange of goods and ideas around the world



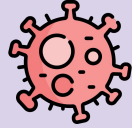
### Renaissance & Exploration

Assessing the impacts of the Renaissance & Enlightenment on the Ages of Exploration & Revolution.



### Scientific Method & Science Fair

Employing and expressing the metric system; Using conversions; Repeating the scientific method steps from formulating scientific questions through hypotheses, research, planning, gathering and presenting data, analyzing and concluding



### Life Forms

Identifying the characteristics of life and the needs of all living things; Practicing the classification of living things; Debating viruses as a form of life



### Cells

Using a microscope to identify animal vs. plant cells; Applying understanding of the structure, function and surface area concept of cells' organelles; Identifying special cells in our body and their function



### Cellular Processes

Understanding processes in the cell: diffusion, osmosis, cell cycle, mitosis, photosynthesis & cell respiration; Understanding the DNA structure.



### Genetics

Studying DNA replication and protein synthesis processes; Focussing on Mendel's work and probability in DNA, heredity and genetic mutations



### Evolution

Corroborating Darwin's Theory of Evolution using empirical evidence; applying understanding of artificial and natural selection concepts, variation, competition mutations and their effect on population changes



### The Human Body

Understanding our body's levels of organization, its 11 systems and their function as one unit; Identifying main organs in the respiratory, circulatory, skeletal and muscular systems



### Integration of Jewish Studies

- ★ What are the connections between the skills necessary to study Jewish and secular texts?
- ★ How do the themes and content of the Jewish and secular texts we study support each other and contradict each other?
- ★ How are our sacred Jewish texts relevant to who we are and who we are becoming?
- ★ What does it mean to walk in the world today as a Jew, and how does our rich textual tradition help us along the way?

### Havruta Study

- ★ How do we give the text a voice, engage in civil discourse, and dive deep into a text, offering interpretations that are rooted in textual evidence?
- ★ How does learning in partnership deepen our understanding of a text? How do we create a balanced partnership between ourselves, our partner, and the text?
- ★ How do we develop the skills of listening and articulating, wondering and focusing, and supporting and challenging, and how do these help to deepen our relationship to a text and to our havruta?

### Group Work and Community

- ★ How do I take care of myself, take care of others, and take care of the environment?
- ★ How do I work in a group on complex, multi-stage projects?
- ★ How do I do my share in a group writing project while also giving my group members a balance of support and independence?
- ★ How do I assert my own voice while allowing for the voices of others?
- ★ How do I bring my best self to class and contribute to a positive classroom environment?

### Shift from Literal to Interpretive Thinking

- ★ How can I begin to shift my thinking from literal to figurative, from concrete to interpretive?
- ★ How do I recognize symbolism and metaphor?
- ★ How do I identify literary themes?
- ★ How do I move past summarizing and begin to provide my own analysis, practicing interpretive skills in order to make meaning from text.

### Shared Novel: *The Outsiders*

- ★ How does an author use the elements of a story to create long-form fiction that is engaging and meaningful?
- ★ How do readers annotate long texts and why is this helpful?
- ★ How do readers use inferences in order to interpret and analyze character, plot, symbolism, and theme?
- ★ What does it mean to be an "outsider"?
- ★ Why is the world so often divided into "us" and "them"?
- ★ What is my identity and how do I reconcile different aspects of my identity?

### The Hero with a Thousand Faces: Fantasy/Sci Fi Book Clubs and Shared Short Stories

- ★ What is the Hero's Journey?
- ★ How is the Hero's Journey portrayed in a variety of fantasy texts? What are the elements of Fantasy?
- ★ How does an author build a vibrant fantasy world?
- ★ How do readers identify themes and author's purpose in fantasy stories and novels?

### The Holocaust and Human Behavior Shared Novel: *Milkweed*

- ★ What is the historical context of the Holocaust?
- ★ What were the choices that individuals, groups, and nations made in response to the Nazi terror, and what are the aspects of human behavior that contributed to those choices?
- ★ What are the universal themes related to democracy, racism, and antisemitism that this history raises and the world we live in today?
- ★ What are our responsibilities as global citizens to make choices that help bring about a more humane, just, and compassionate world?
- ★ What is the role of Jewish memory when learning about this history and in what it means to be Jewish today?
- ★ How is our Jewish identity tied in with the history of the Holocaust?

### Independent Reading

- ★ How do readers pick "just right" books so that reading is a joy and a pleasure?
- ★ How can we become active readers?
- ★ How can I increase my reading stamina?
- ★ How can I use a text to deepen my own experience and to peer through a window to a world outside my own experience?

### Grammar and Mechanics

- ★ How do I write effectively for different audiences and to different purposes?
- ★ Why is it important to become masterful and creative users of the English language? What is the importance of using the English language correctly and thoughtfully?
- ★ How does studying the mechanics of a language help a writer to write in a clean, concise, and organized manner?
- ★ What are all the parts of speech and parts of a sentence?
- ★ How do I fix run-on sentences and vary my sentence length?

### Formal Response to Literature

- ★ How do writers answer interpretive questions with analysis, not with summary?
- ★ How do writers craft organized, formal paragraphs?
- ★ How do writers synthesize information from a variety of sources to form and articulate an opinion?

### Yom HaShoah Tekes: Creating a Community Commemoration

- ★ How do we synthesize what we learned and decide what is important and appropriate to teach to the whole school?
- ★ How can we make really difficult content digestible for younger children without doing a disservice to history?
- ★ How do writers write non-fiction without plagiarizing from other sources?
- ★ How can we use our emotional reaction to events from history to write powerful poetry?

### Creative Writing: Fantasy Narrative

- ★ How do writers craft a fantasy story from ideation, drafting, revising, editing, and publishing?
- ★ How do writers create a rich, vibrant fantasy world using descriptive and figurative language?
- ★ How do writers use dialogue to advance the story and develop characters?
- ★ How do writers use impeccable mechanics to make their stories easy to read, understand, and enjoy?

### Conversational Hebrew שיחה בעברית

Developing acute listening comprehension; using words we have learned in every-day speech; expressing ourselves in Hebrew; Using newly-learned vocabulary in conversation; asking questions, making presentations in Hebrew, conveying a message.

### Reading קריאה

Honing letter and sound recognition; reading words and sentences smoothly; Strengthening reading comprehension; Reading and analyzing books, poems & stories across types of genres; Reading with and without vowels, reading for pleasure, reading logs.

### Writing כתיבה

Mastering letter formation in both print and script; sounding words out correctly, forming sentences; Writing paragraphs, stories and poetry; Answering questions in writing; typing in Hebrew, including writing emails, texts, letters & blogs

### Vocabulary אוצר מילים

Expanding vocabulary to allow for simple conversation; gaining target vocabulary for subjects learned; learning vocabulary through context; finding to *shores* (root) and understanding vocabulary through word families; using the dictionary; Implementing newly learned vocabulary in conversation and writing

### Grammar דקדוק

Making habits of correct sentence formation; utilizing male-female, singular-plural & putting elements together in a sentence never heard before; Using *Shorashim* (roots), *binyanim*, word families, parts of speech, *bege* *kefet* letters, and grammar absorbed through conversation & writing

### Israeli Culture תרבות ישראלית

Familiarizing with important people in Israeli history including writers, leaders, composers & humanitarians; Learning Israeli games, songs, folk dances, Israeli food, expressions, phrases & slang; Creating ceremonies memorializing holidays

### Literature & Poetry ספרות ושירה

Analysing hebrew literature & poetry; learning about the great Hebrew authors, poets and composers; noticing rhymes, foreshadowing, imagery, metaphors, motifs, similes, onomatopoeia & personification; Writing our own stories and poems.





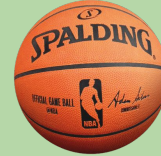
### Flag Football

Rules, fundamental skills: passing, catching, running, flag pulling, general structure of the game. Strategic concepts.



### Soccer

Basic fundamentals: passing, dribbling, movement without the ball. Strategic attacking & positioning



### Basketball

Rules, fundamental skills: passing, dribbling, shooting, rebounding, defensive positioning, structure of the game. Advanced strategic concepts



### Olympic Handball

Fundamentals of the game. Similarities to American sports? Differences? Intersport strategic implementation.



### Field Games

Application of skills required for common field games such as Capture the Flag.. Familiarization of fundamental tactics.



### Team Building

Skills both social & physical required to work effectively as a team through activities designed to increase motivation and promote cooperation



### Street Hockey

Basic fundamentals: passing, shooting, puck-handling. Movement without the puck. Strategic positioning



### Obstacle Course

Combination of all skills and activities learned throughout the school year. Weaves into Lag B'omer

# Music Curriculum: Middle School



## Course Overview: Performance, Writing, Composition & Production

The middle school music curriculum goals are to facilitate leadership and creativity, and to empower students to be active musical leaders in the community. In addition, by completing the K-5 music program, this middle school curriculum aims to form a sustainable music education program at school where students express their learning as music leaders in service of the community.

## Ensembles & Classes:

Modern Bands	Jewish Bands	African Drum Ensemble	Choir	Music Production	Music Appreciation	Music Theatre	Music Composition & Songwriting	Jewish Songleading
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