

Home School 2020-2021

Hashemi Household 4th grade

A summary of topics addressed and work completed this academic year by Quinton Hashemi. This is a culmination of his work in 4th grade.



- Quinton attended school five days per week starting September 5, 2020 and ending June 25, 2021.
- Quinton was taught by his two parents and by two other parents, Alex and Yael Asen. The Asens included their two children, grades 1 and 3, in the school time as well.
- School ran from 9am to 12:30 with one 30 minute break.
- After school consisted of lunch preparation and clean up followed by free-play, park time, trampoline jumping, crafting, other self-directed activities until 4pm.
- We had two vacation times during the school year: one week around New Years and one week in early May.

Topics Taught this year

- Civics, Law, and Government
- Math
- Science
- Hebrew
- Spelling
- Writing and Reading
- Geography
- Culture

Civics, Law, and Government

- Intro to law
 - How a court works
 - Legal thinking and argument
 - Statutory interpretation
 - Mock trial
- Types of government/economies
 - Democracy/Monarchy/Dictatorship/Oligarchy/Anarchy
 - Capitalism/Communism/Socialism
- Structure of US Government
 - Three Branches
 - Checks and Balances
 - Federal vs. State vs. Local
- Constitution and Bill of Rights
 - Freedom of speech
 - Civil rights

Sample work from Civics

Types of Government Chart

Type of Government	Head of State	Decision Maker(s)	Source of Power & How it is Acquired	Length of Rule	Political Freedoms Determined by:
Military Dictatorship	General of military	the General	Force	As long as they can	General
Absolute Monarchy	King/Queen	King/Queen	they have royal blood	life	King/Queen
Limited Monarchy	King/Queen	King/Queen	they have royal blood	life	constitution
Oligarchy	A group of people	the group of people	being rich	As long as they can	the group of people
Representative Democracy (Republic)	President	Power is shared by our representatives	By being voted for	4 years per term	constitution
Direct Democracy	No one	the people	everyone votes	N/A	voting
Anarchy	No one!	No one!	Nothing!	N/A!	Nothing!

Government Cabinets

Quinton
the slide, keep beginning

1. Agriculture
2. Commerce
3. Defence
4. Education
5. Energy
6. Health
7. Homeland Security
8. HUD
9. Interior
10. Justice
11. Labor
12. State
13. Transportation
14. Treasury
15. Veterans
- 16.

Pretend you are Costco's lawyer. Give one reason Mary should pay for the meatball.

Since she is not a customer she is ^{technically} stealing from Costco's. Therefore, she should pay the money.

Pretend you are Mary's lawyer. Give one reason she should not pay for the meatball.

She wouldn't have done it if she had realized before she took the meatball that every thing is ^{too} expensive. Therefore, she does not need to pay because it was an accident.

Do you think Mary should pay for the meatball?

I believe that Mary should pay.

Math

Calculation: Long addition and subtraction, memorization of multiplication tables, long multiplication and division.

Fractions: Addition and subtraction of fractions, representation by decimal fractions.

Algebra: Solving linear equations in one and two variables by substitution and elimination. Solving quadratic equations by guessing the roots.

Functions: Plotting linear and quadratic functions.

Presenting Data: Creating tables of measurements, plotting measurements.

Number Theory: Prime numbers, rational numbers, irrational numbers.

Geometry: The circumference of a circle, perimeter of a square, volume of a cube.

Drawing: Isometric drawings of rooms, cubes, and other simple shapes, architectural drawings.

Accounting: How to keep account of money received and spent.

Math Work Samples

②

⑤ $3x = 9$ $x = 3$ ✓
 $x + y = 10$ $y = 7$ ✓

⑥ $2x - y = 6$ $x = 5$ ✓
 $x + y = 9$ $y = 4$ ✓
 $3x + 0 = 15$

⑦ $4x + y = 9$ $x = 2$ ✓
 $x - y = 1$ $y = 1$ ✓
 $5x = 0 = 10$

⑧ $6x + 5y = 28$ $x = 3$ ✓
 $2x + y = 8$ $y = 2$ ✓
 $3 = 2$

③②

25 May 21

1	2	3	4	5	6	7	8	9
2	4	6	8	10	12	14	16	18
3	6	9	12	15	18	21	24	27
4	8	12	16	20	24	28	32	36
5	10	15	20	25	30	35	40	45
6	12	18	24	30	36	42	48	54
7	14	21	28	35	42	49	56	63
8	16	24	32	40	48	56	64	72
9	18	27	36	45	54	63	72	81

Beautiful 10/10

Test: 58s on 8x8 ● long on 5/28/21
 Test 28 May: 76s

Science

Zoology: capturing, observing, and drawing insects, worms, miscellaneous arthropods, microscopic pond creatures.

Optics: pinhole camera, refraction in water and glass, making rainbows, construction of telescopes, using magnifiers.

Astronomy: mirror projection to measure movement of the sun, angular momentum of celestial objects demonstrated by ball bearings in a bowl.

Chemistry: solubility of salts, saturated solutions, properties of metals, galvanic potential, construction of batteries, colorful reactions of salts, exothermic and endothermic reactions, metallic flame colors, reactions that generate flammable gases.

Physics: measurement of volume through displacement, mass through balance, temperature with thermometers, observation of magnetism, construction of electromagnets, actuators, and electric motors, voltage and current through resistors, driving light emitting diodes, measuring and predicting acceleration due to gravity, distinction between weight and mass, period of pendulums and rotational oscillators, how surface area to volume ratio changes the relative impact of physical phenomena for different sized creatures and objects.

Climate: rain is melted snowflakes, heat from the sun, how clouds keep the world warm at night and cool during the day.

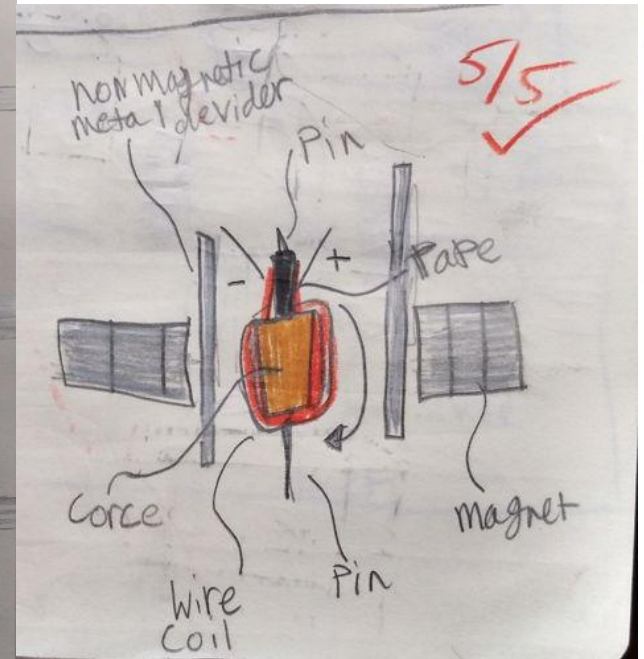
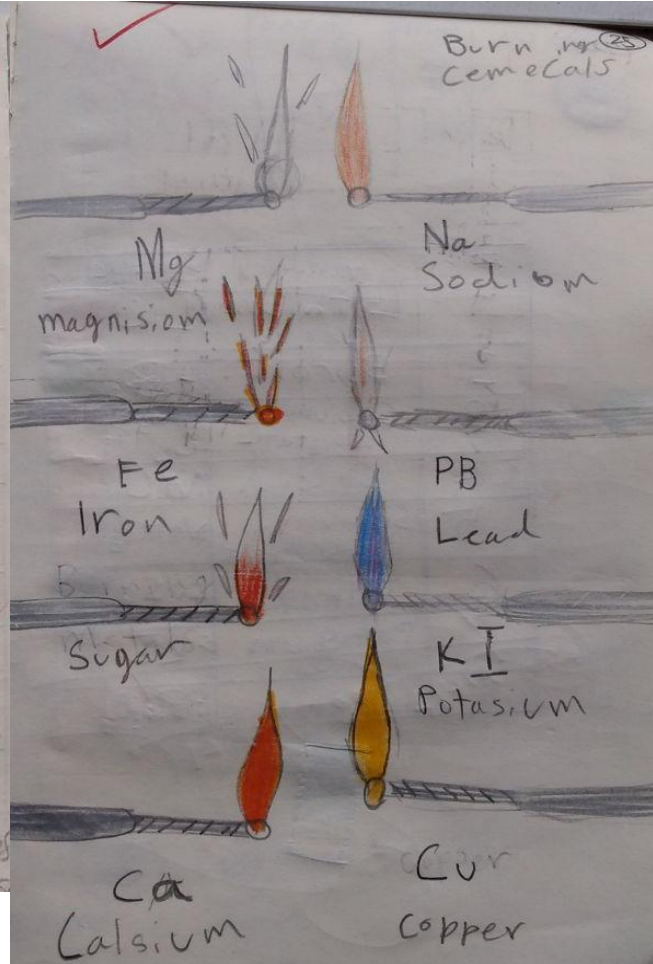
Science Work Samples

(14) Properties of Metals Potential (V)

Metal	Magnetic	Hard	malleable	Potential (V)	color
Copper	NO	7	3 ✓	0.06 ✓	
Nickle	YES	5	5 ✓	0.15 ✓	
Bronz	NO	3	8 ✓	0.11 ✓	
Brass	NO	4	7 ✓	0.14 ✓	
Iron	YES	2	2 ✓	0.38 ✓	
316 ss	NO	1	6	0.19	
Zinc	NO	8	4 ✓	0.88 ✓	
Silver	NO	6	?	0.00 ✓	
lead	NO	9	1 ✓	0.36 ✓	
Mg	NO	8	1/2	1.60 ✓	
Al	NO	9 1/2		1.05 ✓	

19/20

* When the SS316 has been bent a few times



Geography

- place in the world, where I live
- mapping my room, my neighborhood
- date, moon phase, sunrise and sunset times, length of day, solstice
- map key, cardinal directions
- world map: oceans and continents
- kinds of maps: population, political, topographic, Covid-19 map
- longitude and latitude, prime meridian, equator
- states of the United States, regions of the US
- major geographic and physical features of the United States
- geographic features defined: archipelago, island, peninsula, beach, coast, valley, prairie, ocean, sea

Sample Work from Geography

what cities are at these coordinates?

$44^{\circ} N, 79^{\circ} W$ Toronto

$15^{\circ} S, 28^{\circ} E$ U.S. Lake

$30^{\circ} N, 98^{\circ} W$ Texas, Houston

$12^{\circ} S, 77^{\circ} W$ Peru Lima

what coordinates do these cities have?

Honolulu, Hawaii $20^{\circ} N 158^{\circ} W$

Cairo, Egypt $30^{\circ} N 32^{\circ} E$

Sydney, Australia $33^{\circ} S 168^{\circ} E$

~~Rome, Italy~~

Paris, France $33^{\circ} 35' N 10^{\circ} E$

Writing / Reading

reading logs kept, encouraged to read every day
read aloud to each other - Worst Halloween Ever, Little House in the Big Woods, Gulliver's Travels, Shel Silverstein poems

wrote weekly: letters to pen pals, summary of reading, creative stories, items for local magazine, writing prompts, own origin stories, scary things that happened to you, persuasive writing elements of a story

complete sentences, punctuation, conjunctives

books read: Breadcrumbs, Mrs. Frisby and the Rats of NIMH, Racso and the Rats of NIMH, The Lightning Thief

Sample Writing

Oct 14, 2020

Summary of The worst halloween ever

This year halloween gets canceled for Beth's town because of a mischievous family always ruining halloween. But soon the students of Woodrow Wilson school find out that Woodrow Wilson school is its own halloween that is heardmen free. But the heardmen find out and plan to do something bad.

✓+ great summary
three full sentences



3 Billion years ago The ancient cat named Ziz Who was the protector OF the universe, Decided that the universe was safe and that it was time for him to fall asleep. All of ZIZ'S worshippers were so happy the universe was safe that they did not realize that ZIZ was gone. Ziz curled up in a Ball and fell asleep. Finally the party ended and everybody wondered where ZIZ was? They looked around and saw him they called to him... but he did not answer. They all were so sad half of them thought it was the other side's fault and the other side thought it was the first side's fault for not realizing ZIZ was gone. They were so mad at each other the sky land split in two under their feet to make the sun and the moon. Now the two sides could not reach each other. When they calmed down they realized that they should see if they could wake ZIZ up. So they jumped off of the sun and the moon, but when they were less than half way down they realized they could never get back to the moon and the sun. When they reached earth they tried to wake him up, but

The creation of Geleth

Part one: partings and war

3 billion years ago the ancient cat called Ziz Protector of the universe decided that the universe was safe and it was time to fall asleep.

All of Ziz's worshippers were too busy celebrating because the universe was safe that they did not realize that Ziz was gone. Ziz curled up in a ball and fell asleep.

Finally the celebration ended and everybody wondered where Ziz was? They looked around and saw him, and called to him . . . he did not answer. They were all so sad that one side thought it was the other side's fault for not realizing that Ziz was gone and the other side thought that it was the first side's fault. They were so mad at each other that the Skyland split into under their feet to make the Sun and the Moon.

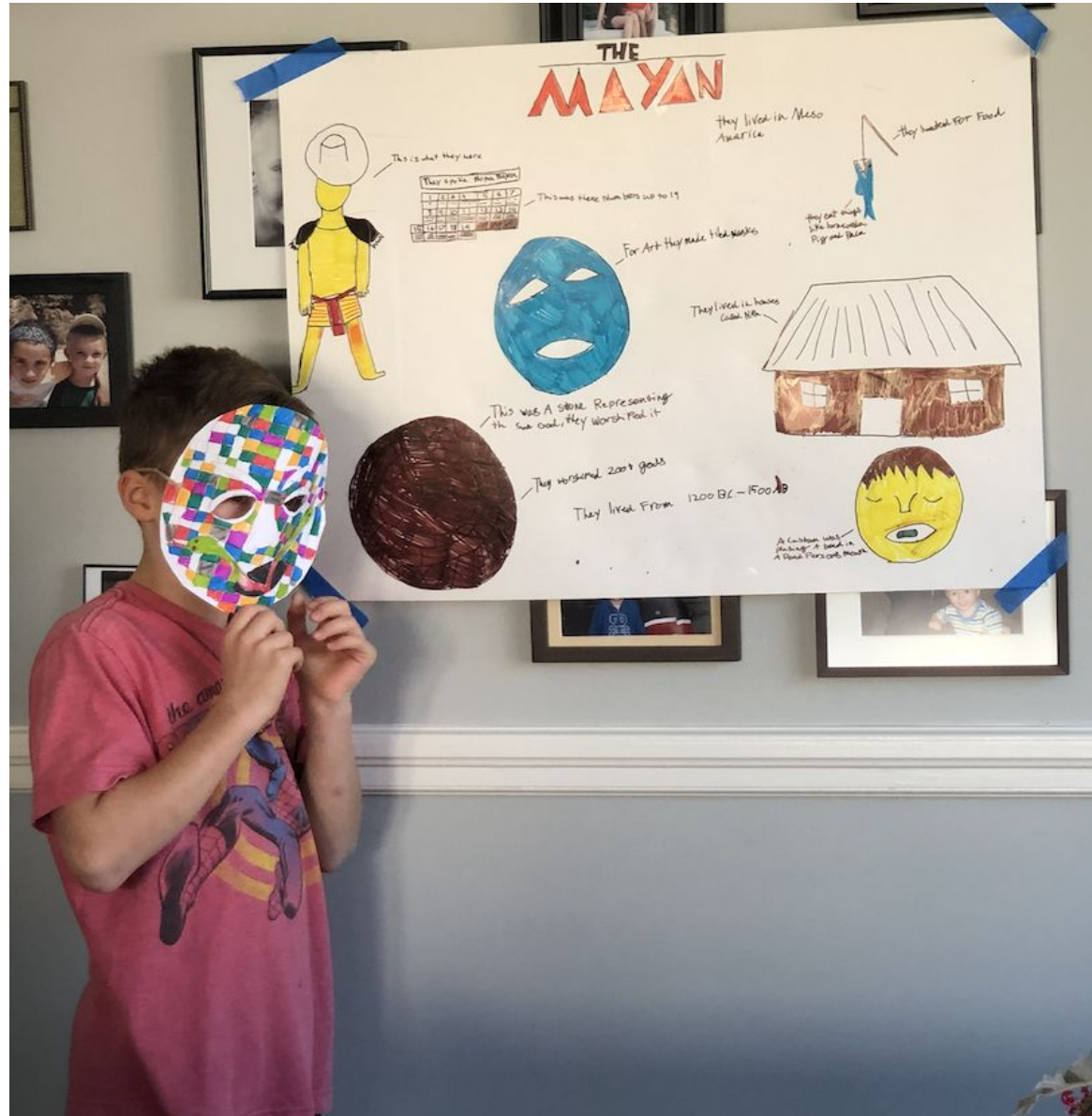
When they came down they realized that they should see if they could wake Ziz up so they jumped off the Sun and the Moon, but then there were less than half way down they realized they could never get back to the Moon and the Sun.

When they reached Ziz they tried to wake him up but He didn't. They started to cry, they filled the oceans with their tears. The flood scared the fleas on Ziz out into the surface and they became the animals in worshippers became mortal humans and the two sides of Ziz, Ziz'S worshippers declared war on each other that would last for centuries.

Culture

- what is culture? Key elements of culture
- geographic elements that effect culture, natural resources
- effects of economy, trade, religion
- studied together South American culture: Mapuche
- independent project and poster live presentation: Maya
- origin stories: Christian, Jewish, Chinese, Incan, Maori, Greek, scientific
- immigration into the United States – Irish immigration due to potato famine, Jewish during WWII
- history of Easter egg tradition
- second culture project: Inuit of circumpolar region

Sample work from Culture



History

- This year Quinton learned about ancient history following the series “Story of the World” by Susan Wise Bauer. Each week covered a new topic. We completed reading comprehension worksheets by the same publisher. Samples of our worksheets are provided. Here is a summary of the main topics we covered:
 - Why is history important?
 - What resources do we have to study the past?
 - Nomads and farmers
 - Ancient Egyptian civilizations
 - Hammurabi’s code and the Babylonians
 - Ancient Greece
 - Sparta and Athens
 - Alexander the Great
 - The rise of the Roman empire
 - Julius Caesar
 - The beginning of Christianity
- Throughout the year in history class, we drew parallels between ancient forms of government and modern governments, drawing on parallel teaching in Civics. For example, we discussed the differences between ancient forms of democratic governance and modern democracies.

History Work Sample

Quinton
The Story of the World
Chapter 22 Test: Sparta and Athens

A. Fill in the blanks.

- The people of Athens wanted their children to be wise and educated.
- The people of Sparta wanted their children to be strong and brave.
- When the citizens of Athens needed to vote about something, they would gather at a special meeting place called the _____.
- A democracy is when people vote on the laws and the leaders.

B. Multiple Choice. Circle the letter of the best choice.

- The Greeks were different from the Persians because all of the Greeks _____.
 a. didn't speak the same language
 b. didn't obey the same king
 c. didn't dress the same
 d. didn't worship the same gods
- Sparta was ruled by _____ kings.
 a. many
 b. elected
 c. warrior
 d. educated
- Spartan boys were never allowed to _____.
 a. complain
 b. run
 c. eat
 d. exercise
- When Spartan boys were 20 years old, they had to _____.
 a. get married
 b. leave the army
 c. vote
 d. pass a test of fitness and bravery

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what were girls in sparta supposed to do?

- have children who would fight for sparta
- learn to read and write
- join the army with the men
- learn to take care of the household

- Which of these things did the people of Athens not vote on?
 a. their leaders
 b. the gods they would worship
 c. their taxes
 d. whether they should go to war
- The Athenians thought it was important to be educated so that _____.
 a. people could read
 b. citizens could understand how to vote properly
 c. people would have better jobs
 d. boys would know how to fight
- _____ was a famous Greek who said ignorant people will always obey tyrants.
 a. Cyrus
 b. Sparta
 c. Athens
 d. Plato
- What were all girls in Athens supposed to do?
 a. have children who would fight for Athens
 b. learn to read and write
 c. learn how to vote
 d. learn to take care of the household

C. True or False. Write the word "true" or "false."

- false 14. Sparta and Athens were very similar cities.
- false 15. All men in Sparta were allowed to vote.
- true 16. Boys in Athens learned reading, writing, mathematics, music, and poetry.
- true 17. Girls in Athens learned how to sew, raise a garden, and take care of children.
- false 18. The people of Athens wanted to be ruled by tyrants.

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What is archaeology? Archaeology is the art of

digging up ^{objects} objects from the past. Using ^{special} special tools,

archaeologists brush away the dirt from the ^{objects} objects.

We can learn about what tools people used in the past

using archaeology.

Nomads are people who travel from place to place in

tents, hunting, and picking ^{fruits berries} fruits & berries. When there were

were no more ^{fruits} fruits to pick or animals to hunt they

would move.

Farmers & Nomads were very ^{different} different. Farmers planted

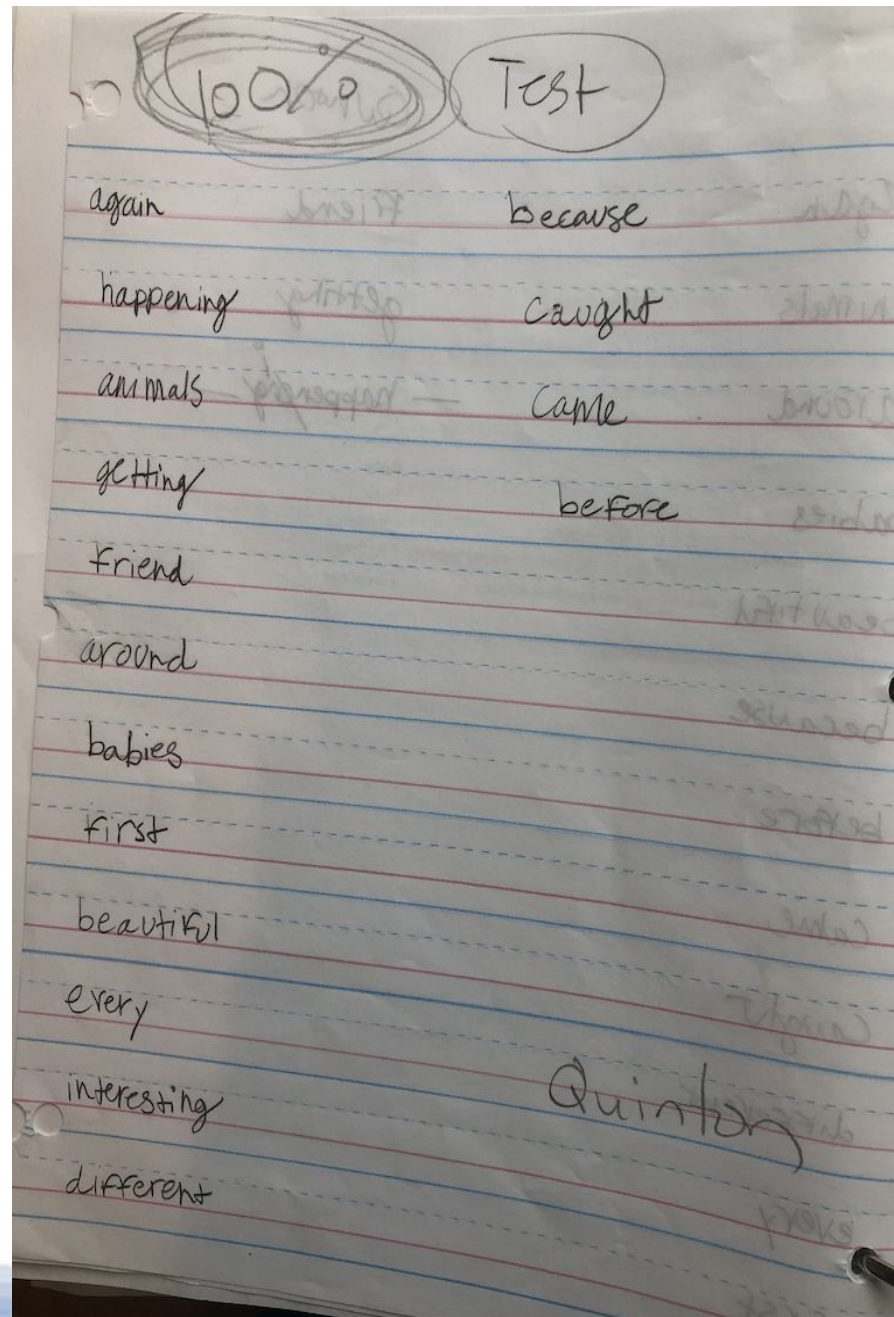
seeds, then harvested the ^{excites} crops. Farmers raised ^{own} their own

^{cattle} cattle so it was ^{easier} easier to hunt. Farmers ^{built} built houses

Spelling

- Quinton practiced a new list of spelling words each week. We followed the fourth-grade spelling lists from www.homespellingwords.com.
- We repeated frequently misspelled words from week to week. Quinton has mostly mastered the fourth-grade spelling materials. Samples of Quinton's spelling work show his progress from the beginning of the year through the end of the year.

Spelling Sample



Hebrew

- Quinton began the year without any knowledge of the Hebrew language or its alphabet. He learned to recognize and write the Hebrew alphabet and vowel symbols (the vowels are separate from the alphabet).
- Quinton can now read basic Hebrew sentences and follow instructions in the classroom. Samples of Quinton's writing are attached.

Quinton

קריינאדן

children pool morning
בוקר טוב ילדים

today Day which
איזה יום היום?
which

היום יום בוקר ערב

I/me אני

Boy אתה

girl את

we אנחנו

Thank תודה

Please בבקשה

pleasant נעים

Very מאוד

היום יום

אני

את

אנחנו

תודה

Field Trips and Guest Teachers

- Guest teachers included a chemical engineering undergraduate and veteran or the US Air Force.
- The class took several field trips to the library for research and reading enjoyment.
- Especially in the second semester, we went on field trips to museums and historical sites such as the Bunker Hill Monument.

The End

