

2017-2018 LEAH CO-OP Class Descriptions

Period 1

Grades 9-12:

Public Speaking (Fall)

Description: "But in your hearts, revere Christ as Lord. Always be prepared to give an answer to everyone who asks you to give the reason for the hope that you have. But do this with gentleness and respect." 1 Peter 3:15

The "ability to communicate effectively" is a quality we all need, and one that employers most want to see in new recruits. Shy kids learn to find their voices and confident kids learn to hone their public speaking skills.

Your Instruction will include:

Listening to select speeches;

Learning the art of persuasion;

Giving several speeches over the semester;

Receiving safe feedback via a pre-planned rubric

Goals will be individualized – you will be competing against yourself – learn how to be concise, be comfortable talking in a crowd, be able to say what you mean AND have others understand you, and be a better listener. Learn in this low-pressure, affirming setting, and enjoy gaining an important life-long skill!

Should I Take a Public Speaking Class?

Regardless if you have planned to start a career after school or not, you will need speak publically in one form or another.

"Furthermore, outside of the workplace, the likelihood that you'll end up speaking in public is also quite significant, whether that be at church, a school board meeting or a community event.

Plus, if you are asked to say a few words at a funeral or are encouraged to give a toast at your best friend's wedding, thanks to your speech class, you'll be more than ready. You'll be

confident and experienced." -- Jeremiah Massengale <http://college.usatoday.com/2014/01/16/5-reasons-everyone-should-take-a-public-speaking-course/>

<http://www.livestrong.com/article/129584-benefits-public-speaking-classes/>

<http://oureverydaylife.com/should-students-public-speaking-classes-14725.html>

High School Research and Reporting (Spring)

Class Fee: \$0; Students need to purchase a copy of the Sadlier student guide Writing a Research Paper: A Step-by Step Approach by Phyllis Goldenberg (3rd edition).

Description: Research papers can seem like an overwhelming task to many. In this class, we will take a semester long, step-by-step approach to writing a high school level research paper. Such skills as choosing a topic, finding sources, taking notes, writing a thesis, and constructing an outline will be covered, as well as writing and editing drafts and documenting sources. Some additional writing assignments may also be incorporated into the class. Please contact Becky Rosenberger with questions (beckyrosenberger@gmail.com).

Grades 6-8:

Science: Apologia Exploring Creation with Chemistry and Physics

Class Fee: TBD; Families will be responsible for textbook and student notebook (see below)

Description: Discover the foundational elements of the universe and the building blocks of creation with *Exploring Creation with Chemistry and Physics!* Study how the universe functions through this exploration of matter and energy; lessons cover atoms and molecules, pH levels, types of mixtures, mechanics, laws of motion, dynamics of motion, energy, waves, light, machines, magnets, and more. Filled with bright photographs, fun “Try This!” experiments, and integrated narration questions, this guide to physics and chemistry will keep kids interested and engaged. Experiments, note booking activities, “what do you remember?” narration questions, projects, and experiments help to reinforce concepts. One textbook (\$28) per family and one student notebook (\$20) per child required.

Grades 4-8:

Baking (Fall and Spring)

Class Fee: TBD

Description: For those who want to gain some skills in the kitchen, this class will focus on how to measure, mix, and bake a variety of treats. We will learn how to follow the directions of a recipe and know why it is important to be accurate. We will also learn about specific ingredient and what they contribute to the outcome (taste, texture, rising) of the baked good. We will put together a mini book of our tested recipes to replicate for our families at home.

Class size limit: 6

Sewing: Community Service Project (Fall and Spring)

Class Fee: \$2.00 per student (thread/basic sewing supplies)

Description: Sewing machine: please bring if you have one. Machines will be share. Ironing board and iron- please bring if you have one- these will be shared also.

Project I – Fabric baskets for use for the elderly on their walker. Quilt North has offered to supply as many kits as we need for class. The kit includes all materials needed (fabric/fusible stabilizer/velcro) except thread.

Project II – Dresses for Africa. Old pillow cases can be modified and accessories added to make dresses that can go to Africa. Please try to ask people at church for pillowcases now.

Grades 4-5:

Economics: It's Elementary (Fall)

Class Fee: \$0

Description: We will be using Money Doesn't Grow on Trees Lapbooks and Explore Money! By Cindy Blobaum and others. This course will involve hands on activities to teach economic principles. Topics to be covered include: production, consumption, distribution of goods and services, public goods, imports, exports, profit, loss, entrepreneur, interdependence, banks, budgeting, time sheets, jobs and paychecks, career exploration, and more. This class will culminate with a charity bake sale organized and managed by the class. The proceeds of which will be donated to a cause to be determined.

Research/Presentation: Putting It All Together (Spring)

Class Fee: \$0

Description: This class will incorporate learning to do research on a topic and presenting the topic with the written word as well as through project presentation. Library skills will be taught as well as project presentation skills. Students will learn notetaking skills, outlining, searching the card catalog. Students will use technology to complete research and to present findings. Students will conduct research using a variety of references including encyclopedias, books, almanacs, atlases, magazines, and online resources. Students will complete research on the following: inventions, cities, and a famous person, and more. Students will complete a traditional research report as well as present research in creative ways using technology!

Grades 2-3

Science

Class Fee: \$5.00 per student

Description: Fall: Animals

Curriculum: ScienceWorks For Kids Animals With Backbones Grades 1-3
and Animals Without Backbones Grades 1-3

Animals with Backbones covers these concepts:

- animals with backbones are called vertebrates
- body characteristics and growth of vertebrates
- hunting, gathering, and eating habits of vertebrates
- vertebrate adaptation and self defense
- where vertebrates live

A variety of engaging activities present the concepts in ways that students can understand.

Each concept presented includes:

- teacher directions for lessons
- reproducible resource pages such as sets of picture cards, minibooks, and lab sheets to record the results of hands-on investigations

Animals Without Backbones covers these concepts:

- animals without backbones are called invertebrates
- invertebrates are classified by their body characteristics
- most kinds of invertebrates live in the ocean
- invertebrates have developed different ways of acquiring food
- invertebrates' movements are adapted to the animals' needs
- invertebrates have developed many forms of self-defense
- some invertebrates build homes

A variety of engaging activities present the concepts in ways that students can understand.

Spring: Space

Curriculum: ScienceWorks for Kids: Exploring Space grades 1-3 and
Theme Pockets:Space

Exploring Space covers these concepts:

- Earth is part of a solar system in the Milky Way galaxy
- stars are huge balls of hot, glowing gases
- our sun is a star
- groups of stars seen together are called constellations
- each planet in our solar system has unique characteristics

- Earth has one satellite called the moon
- Earth's movements through space cause day and night and the seasons
- scientists study space in many ways

A variety of engaging activities present the concepts in ways that students can understand.

Each concept presented includes:

- teacher directions for lessons
- reproducible resource pages such as sets of picture cards, minibooks, and lab sheets to record the results of hands-on investigations

Theme Pockets:Space Covers:

Cross-curricular activities all about space!

Three pocket projects help your students learn all about the sun, moon, stars, space travel, and the other planets of the solar system.

Pocket 1:

- The Planets of Our Solar System
- How Far from the Sun?
- Comets, Asteroids, and Meteors

Pocket 2:

- Sponge-Painted Sun
- Phases of the Moon Book
- Stars

Pocket 3:

- Humans in Space
- Rocket to Outer Space
- My Trip to Outer Space

Period 2:

Grades 9-12:

Biology Lab

Class Fee: \$20 per student lab fee; Students will need to purchase a copy of the textbook God's Living Creation (Abeka, 3rd edition) and the accompanying lab manual (Abeka)

Description: Come explore the beauty and wonder of God's creation as we delve into the study of biology. This lab class will be focused on conducting labs in groups with some general review of the topics beforehand. Students will be expected to read the text materials on their own to be prepared for class. Labs will be turned in and graded.

Grades 6-8:

Microscopes

Class Fee: \$10

Description: Introduction to Microscopes: Explore microscopes using Usborne Science and Experiments - "The World of the Microscope" and "Microscope Adventure!" by Kym Wright. Students will learn the history of the microscope, and how to care for and use the microscopes. Students will evaluate fibers, dust, cells, insects and more. Students will also be introduced to other kinds of microscopes I have used in college and industry such as polarizing, laser seeking, stereoscope, scanning electron, transmission electron and IBIS/NIBIN (microscope

and software used by Firearms Examiners in Forensics). FYI - If a student breaks a microscope, they will need to pay for it. They are owned by the co-op.

Class size limit: 6

Choir

Class Fee: \$0

Description: We will work together to learn harmonies in choral arrangements to be performed during morning program and at Fine Arts Night

Grades 4-8:

Mythology

Class Fee: TBD

Description: We will be covering mythology from the Ancient Greek and Roman cultures as well as African and Native American cultures. We will study similarities and differences. Reading and projects will be assigned. Course books are still under consideration. Please contact Susyn Kelly regarding materials and cost.

Grades 4-5:

Science – with a Physics Focus

Class Fee: \$5.00 per student

Description: We will be using NOEO Physics 2 by Logos Press. Texts include: Usborne Internet-Linked Science Encyclopedia; Usborne Internet-Linked Mysteries and Marvels of Science, Gizmo's and Gadgets- Creating Science Contraptions that Work, and others. Hands on learning labs and activities will be centered around these topics: energy, forces, motion, light, sound, electricity, and astronomy. Students will complete in class readings and notes as well as keep lab notebooks- recording data from experiments, writing definitions and completing drawings. This curriculum is designed with lots of hands on experiments, as children gain understanding of scientific concepts.

Grades 2-3:

History study (Fall)

Class Fee:\$0

Description:Explore Native Americans through lap-booking, stories, crafts and possibly food. Class will involve coloring, cutting/glue, and listening to create a History Pocket for each child. Please contact the teacher if there are food allergies. Students will need to bring their own scissors, glue stick, colored pencils/crayons each week.

Writing Fun (Spring)

Class Fee:\$0

Description: Exploring writing through dictation exercises, journal writing, games and Mrs. Piggly Wiggly. Even kids who dislike writing will have fun!

Period 3

Grades 9-12:

Biology continued from Period 2

Grades 6-8:

Art

Class Fee: TBD

Description:

Write Shop I

Class Fee: There is no class fee, however families are responsible for purchasing workbook. See below.

Description: Write Shop I is an incremental writing curriculum designed to teach junior high and high school students the skills necessary to brainstorm, write, and edit their own writing. New skills are learned step by step using the "learn, practice and do" method. Grammar is also learned throughout the curriculum as students progress through lessons on descriptive, informative, and narrative writing. Students will need to purchase the Write Shop I workbook. More information about the curriculum can be found at www.writeshop.com. Workbook can be purchased through the website. Digital Copy- \$39.50 or a Print Copy- \$55.95. Note: A Digital copy can be used for multiple children in one family.

Write Shop II

Class Fee: \$25 per student licensing fee

Description: *WriteShop II* is a great resource for parents who lack confidence in their own ability to teach their students to write. It takes the guesswork out of the process. *WriteShop II* is written for students in grades 8-12. Following a brief review of *WriteShop I* concepts, *WriteShop II*, students will write multiple kinds of essays, where they will learn to express an opinion and develop and support it with facts, details, and examples. Lessons cover advanced descriptive narration, point of view, narrative voice, and essay writing. This includes persuasive writing in the basic 5-paragraph essay model & how to write a timed essay. Students write one composition over a two-week period, revising it twice. Incremental in approach, exercises are designed to be approached consecutively, building upon previously learned material. Working through assignments by brainstorming, drafting, and revising, students learn to edit their papers methodically, using a Writing Skills Checklist purposefully tailored to the individual lesson. Why should my child learn to write well?

From a student's perspective: <http://news.excelsior.edu/student-essay-importance-writing/>

From a "text" point of view:

http://study.com/articles/Why_Writing_Skills_are_More_Important_Than_Ever.html

Grades 2-5:

Gym

Class Fee:\$5

Description:All students to participate in fun, active gym activities. There will be multiple week units of Soccer, Basketball, physical fitness, Revelation Fitness by Angel, and Dance with Sarah Rogers. In between units we will have games that may include: Dodgeball, Scatterball, Swampball, Kickball, Volleyball, Capture the Flag, Ladder, Ultimate Frisbee, Chuck It, Steal the Bacon, Crabs, Crains, & Crows, Blob tag, Elbow tag, etc.

Period 4

Grades 6-12:

Gym

Class Fee:\$5

Description:All students to participate in fun, active gym activities. There will be multiple week units of Soccer, Basketball, physical fitness, Revelation Fitness by Angel, and Dance with Sarah Rogers. In between units we will have games that may include: Dodgeball, Scatterball, Swampball, Kickball, Volleyball, Capture the Flag, Ladder, Ultimate Frisbee, Chuck It, Steal the Bacon, Crabs, Crains, & Crows, Blob tag, Elbow tag, etc.

Life Skills: Health, First Aid, Cooking, Sewing, etc

Class Fee: TBD

Description: Apart from academics, there are many skills necessary for kids to learn as they grow. In this class, we hope to equip the students with essentials that will benefit them both now, in the home, and someday when they are on their own. Some ideas considered for this class are cooking basics, sewing basics, first aid, changing a tire, how to balance a checkbook, as well as money and/or time management. We welcome and encourage other ideas that the students want to pursue. We will try to cover as much as our time allows.

Grades 4-5:

New York State History Through Art

Class Fee: \$3

Description: We will use a variety of books and materials to help history come alive! Get ready to study New York State History in a fun, hands-on way. Our comprehensive State History course will take our students across New York state discovering not only state symbols, songs and landmarks, but also famous people, geographical regions, timelines of historical events and so much more.

We will use New York State lapbooks, Around New York in 80 Days; New York, New York! The Big Apple from A to Z and other materials to guide us through the state.

We will begin in the 15 and 1600's at our state's origins with Giovanni de Varranzo and Henry Hudson, making paper mache globes and mapping their routes. We will learn about our Dutch heritage and see New York become a state.

We will move to the 1800's discussing the Erie Canal, Mohawk Hudson River Railroad, the Brooklyn Bridge, Ellis Island and the Statue of Liberty. Each topic will be explored while the students are engaged in a fun art project, cementing the learning process!

We will then move to the 1900's. Students will learn about New York's World Fair, Boldt Castle on the St. Lawrence Seaway and Christmas in Rockefeller Center while creating works of art.

We will discuss the different geographical regions of New York and create more art as we learn about Niagara Falls, Central NY, Rochester, Seneca Falls, the Hudson River Valley and the Catskills and Adirondack Mountains

We will be using a variety of media including paper mache, paint, markers, and more to learn in a fun way. We will also make our own New York State Lapbook, learning about state symbols and facts as we go!

Grades 2-3:

Spanish

Class Fee:\$0; Each child will need to bring a class folder.

Description: Text: Mi Vida Grades 3-4, by Spanish for You!

Instruction Methods and Tools: Story time picture books, music, worksheets, flashcards, conversation and homework handouts.

This class will be a continuation of the fundamentals of the Spanish language, but will accommodate children new to Spanish as well. Students will have fun learning vocabulary for places, people, things, activities, Spanish culture, etc. as they learn parts of speech, expressions and much more. Using instruction methods and tools outlined above, the students will apply learned vocabulary into basic conversational elements.

Pre-K/K-1st:

Periods 1,3,4:

Class Fee: \$0

Description: This year we will mainly be following the Five in a Row curriculum. Five in a Row uses really great books as a springboard into teaching Language, Social studies, Art, Literature, Math and Science.

We will also be using Around the World With Jan Brett and Galloping the Globe for Geography. We will have lot of fun, incorporating movement, music, and hands on activities to explore many areas of learning.

Gym Class Description: The goal for the PreK-1 gym class will be to get the kids moving, work on team building, and instill a love for being active through a creative, organized class. My hope is that each child will be challenged and encouraged in their abilities.

For more information regarding the curriculum, please see:

http://www.homeschoolshare.com/connections__jan_brett_world_tour.php

<http://fiveinarow.com/>

<http://cathyduffyreviews.com/homeschool-reviews-core-curricula/history-and-geography/geography/galloping-the-globe-and-cantering-the-country>