

# **MACH Elementary Class Descriptions and Book List for 2022-2023**

## **2 and 3-Year Old's**

This class will focus on cooperation with other children, in addition to learning and developing motor skills such as coloring, tracing, cutting, and pasting. This class will also allow structured playtime, as well as story time and snack time.

A class fee of \$5- \$10 may be charged at the end of the year to cover the cost of copies, craft supplies, and a possible workbook.

## **Kindergarten--2<sup>nd</sup> Grade Gym Class**

In this class we will be working on developing large motor skills through fun group games, sports exercises, jumping rope, and other activities. This will be done in an encouraging environment fostering an appreciation and interest in physical accomplishment.

## **Kindergarten Science**

This science class will cover a variety of topics related to science such as the senses, weather, plants, animals, and more. Experiments, worksheets, and other hands-on activities will enhance learning. No textbook needed. A class fee for copies and supplies will be collected at the end of the year.

## **Kindergarten History: Life in Plymouth Colony**

This hands-on history class will help history come alive for young learners by focusing mainly on the voyage of the Pilgrims to the New World, life in the new colony, and what the Pilgrims have given us. In addition to history, each class will begin with "calendar time", where students will concentrate on reviewing the current date, and learning the days of the week and months of the year. The rest of the class time will be devoted to hands-on-activities and projects. No textbook is required. A class fee will be charged at the end of the year to cover the cost of copies and supplies. Some optional projects may be assigned outside of class.

## **1<sup>st</sup> & 2<sup>nd</sup> Grade History: Native Americans History Pockets**

This year's hands-on, craft-based course will focus on eight Native American tribes' food, clothing, shelter, and family life. Students will also study the life of David Brainerd, an early American missionary to the Native Americans. In addition to history, each class will begin with "calendar time", where students will concentrate on reviewing the current date, and learning the days of the week and months of the year. Special emphasis will also be given to important holidays, such as Columbus Day, Thanksgiving, President's Day, etc. The rest of the class time will be devoted to hands-on-activities and projects. No textbook is required. A class fee will be charged at the end of the year to cover the cost of copies and supplies. Some optional projects may be assigned outside of class.

## **1<sup>st</sup> & 2<sup>nd</sup> Grade Science**

This hands-on learning class will cover a variety of topics related to physical science. Young learners will discover what energy and matter are, how simple machines work, what the planets are like, why the earth has seasons, how the water cycle works, and how mountains are formed. Throughout these studies, the Bible will be brought to life while learning how God is the author of all science! The textbook will contain activity pages which students will use to create their own science notebooks. There will be a small fee charged at the end of the year to cover the cost of supplies and copies.

- Required textbook: *Let's Talk Science: Adventures in the Physical World: Level 2* by Master Books, ISBN: 978-1683442103

### **3rd Grade Science: Flying Creatures**

This hands-on learning class will explore the study of birds, bats, and flying insects and how these creatures point toward a Creator. Students will also learn about flight and develop classification skills. Class time will consist of various projects and experiments to enhance their studies. A copy and supply fee will be collected at the end of the year.

- Required books: *Exploring Creation with Zoology 1: Flying Creatures of the Fifth Day*, published by Apologia, ISBN 978-1-932012-61-3

### **3rd Grade American History**

In this class, students will learn about the “Dawn of Opportunity,” examining the events from the 1700's to the 1900's. Geography begins the year, then we will learn about the mass of people immigrating to America; how that changes the look of America and what freedom means. We will study missionaries, the fifty states in America, the explosion of inventions and how that also changed the way America looked and operated. We will touch on some world history and end with government and economics. This class will include sequencing events, summarizing data, making predictions, work with graphs, and forming opinions. Students will have weekly homework assignments, write several reports, and do projects and other hands-on activities. A fee will be charged to cover the cost of copies and other supplies.

- Required book: *Bob Jones University Press Heritage Studies 4, Student Text (2nd ed.)* ISBN# 0-89084-916-1 \*Note this is an older edition and can be easily purchased used.

### **3<sup>rd</sup>-6<sup>th</sup> Grade Gym**

This class will cover a variety of sports/activities including, but not limited to, soccer, basketball, hockey, dodgeball, yard games and other various recess games. There will be a mileage club for students to participate in which will promote and encourage walking and running as ways to stay active every day. This club will offer incentives and will track students' distances during the week. There will be a big focus on the virtues in the Bible and how they can be applied to good sportsmanship on and off the field. There will be short quizzes and/or worksheets which students will complete during class time and will be useful to include in the student's portfolio. A fee may be charged at the end of the year to cover the cost of copies.

### **4th Grade PA History**

This class will be a yearlong in-depth study of our state of Pennsylvania: it's government, history, natural resources, industries, peoples and cultures. We will be reading books relating to PA History, writing/presenting book reports, compiling information through timelines, a lap-book, and hands-on-projects. One of the goals of the class will be to learn the states and capitols of the United States, as well. Several field trips will be offered for this class.

- Required books (can be purchased at: [www.shpublishing.com](http://www.shpublishing.com)):
  - *PA Keystones* by Susan Kemmerer ISBN# 0-9758543-2-1
  - *PA Keystones Student Activity Pack* ISBN# 0-9758543-3-X

#### **4th Grade Science--Swimming Creatures of the Fifth Day**

Using Apologia's *Exploring Creation with Zoology 2: Swimming Creatures of the Fifth Day*, students will learn about God's incredible world of aquatic animals and their ocean habitat. Various ocean animals will be studied, including whales, seals, sea turtles, fish, sharks, crabs, octopuses, sea stars, jellyfish, and many more. There will be weekly homework assignments, as well as intermittent projects. Class time will include group activities and experiments. A copy/supply fee will be collected for this class.

- Required books: *Exploring Creation with Zoology 2: Swimming Creatures of the Fifth Day*, published by Apologia; ISBN 978-1-932012-73-6

#### **5th & 6th Grade History: Middle Ages**

This class will cover the period of history from the fall of Rome to the beginning of the Renaissance. It will include the rise and fall of many Empires. Every continent will be visited as many facts about the people and places all over the world are discovered. This course will include a book report, activities in class, projects, and map studies.

- Required books:
  - *Story of the World, Volume 2* by Susan Wise Bauer (textbook) ISBN# 0-9714129-3-6  
(the revised edition may also be used)
  - *Story of the World Volume 2 (Student pages)*- ISBN#- 9781933339160 (The consumable student pages or the downloadable version can be ordered at [welltrainedmind.com](http://welltrainedmind.com) )
  - *Questions and Answers: Knights and Castles* by Philip Brooks ISBN# 978-0753453711
  - *Castle* by David Macaulay ISBN# 0-395-32920-5
  - *Ink on His Fingers* by Louise Vernon- ISBN# 0-8361-1673-9
  - *The Door in The Wall* by Marguerite de Angeli - ISBN#- 978-0-440-40283-1

#### **5th & 6th Grade Science**

In this class, students will study the following topics: Earthquakes & Volcanoes, Weathering & Erosion, Natural Resources, Cells & Classification, Plant & Animal Classification, Plant & Animal Reproduction, and Human Anatomy & Physiology. Along with regular weekly reading and workbook assignments, one project and report will be assigned each semester for students to complete and present in class. Classes will consist of lesson review, games, experiments, group activities, etc. A copy/supply fee will be collected at the end of the year. (\*\*BJU tests are optional - Students who choose to do the tests, will complete them at home and the teacher will

collect and grade them.) \*Note: Only half of the BJU books will be used each year. Students beginning this class in 5th grade, will complete the books in 6th grade.

- Required books:

- *BJU Science 6 student textbook*, 4th edition ISBN 978-1-60682-206-7
- *BJU Science 6 Activity Manual*, 4th edition ISBN 978-1-60682-217-3
- *BJU Science 6 Tests Booklet*, 4th edition ISBN 978-1-60682-219-7 (OPTIONAL)
- *Exploring Creation with Human Anatomy & Physiology* by Apologia, ISBN 978-1935495-14-7

### **Gym/Holidays & Seasons/Stories & Crafts: Ages 3 years to grade 1 (12:30-1:30)**

Activities for this hour will begin with about 20 minutes of gym time activities, followed by hands-on projects and crafts related to the holidays and seasons (apples, pumpkins, leaves, Thanksgiving, Valentine's Day, etc.) Stories, games, puzzles, and educational videos may also be incorporated into class time.

### **Choir/Musical (2<sup>nd</sup>- 9<sup>th</sup> grades)**

Teacher: Jamie Gerlach

This class will provide instruction of musical elements including rhythm, singing with healthy technique, reading music, and performing. A drama component may also possibly be added.

Teacher: Jamie Gerlach. Approximate cost is \$50--100/student but is dependent on the number participating and whether the class is a half or full-year class. (A minimum of 25 students is needed by the teacher for the musical to be held.)

### **Life & Safety Skills: Grades 2-6 (1:30-2:30, Fall semester)**

Teachers: Rotating moms and visitors

This afternoon elective will cover a variety of topics pertaining to daily life, dangers, and safety (strangers, internet use, emergencies, self-defense skills, CPR, farm hazards, guns, bicycle/road, water, ice, fire, and kitchen safety.) We will be inviting various workers from different fields to teach practical skills the children should be aware of and use. For topics in which we cannot find a field worker, various moms will be responsible for teaching those topics. Role playing and instructional videos may also be incorporated into the class. There may be a minimal fee for each student which will be collected at the end of the semester.

### **Outer Space Art and Rocket Building: Grades 2-6, Spring semester)**

This class will be overseen by moms of students in the class. Video tutorials of art projects using a variety of mediums will be provided as an option for use, however, moms also have the freedom to choose art projects of their liking, if it is geared toward an outer space theme. In addition, students will build their own rocket and will be given the opportunity to launch them together as a class. Students may need to provide their own art supplies and/or a fee may be charged for those supplies shared by all students.