



Coursework Transcript Template

NOTE: This information is intended to assist homeschoolers in creating their own student transcripts. Please do not use it for any other purpose. It is **only** an excerpt of the studies and materials we have used in our homeschooling experience and does not fully reflect our work. If you have any questions, please feel free to email me at gwyn@STEAMPoweredClassroom.com.

High School Flow-Chart - Excerpt

Completed Coursework (selections)		Proposed Junior		Proposed Senior	
<i>Course</i>	<i>Credit</i>	<i>Course</i>	<i>Credit</i>	<i>Course</i>	<i>Credit</i>
Algebra I (Homeschool)	1	Enriched Algebra II (high school)	1	Econ (high school)	.5
English 9	1	Chemistry (high school)	1	American Government (high school)	.5
World History I (Homeschool)	1	Spanish (high school)	1	Physics (high school)	1
Physical Science	1	Elective: Wind Ensemble (high school)	1	Spanish (high school)	1
		Elective: Jazz 1 (high school)	1	Elective: Wind Ensemble (high school)	1
		Elective: Concert Choir (high school)	1	Elective: Jazz 1 (high school)	1
		Elective: Jazz Choir (high school)	1	Elective: Concert Choir (high school)	1
				Elective: Jazz Choir (high school)	1

Completed Coursework Class Descriptions - Excerpt

Algebra I, Fractals, Math Logic, Counting and Probability, Geometry Introduction

Years Studied: Fall 2010-Spring 2012 as home education class

Grade: A, **Suggested Credit:** 1

Course Description

Two-year focused study on Algebra I, following the Rusczyk text and Alcumus module, interspersed with shorter studies of counting and probability, fractals, logic, and geometry.

Texts and Resources:

- *Introduction to Algebra* by Richard Rusczyk of Art of Problem Solving
- “Alcumus” online problem solving module (<https://www.artofproblemsolving.com/Alcumus/Introduction.php>),
- Khan Academy (<https://www.khanacademy.org/>)
- Vi Hart videos (<http://www.youtube.com/user/Vihart>)
- *Math Bafflers* by Prufrock Press, “Hunting the Hidden Dimension” (PBS documentary on fractals)

English 9

Years Studied: Fall 2009-Spring 2010 as home education class

Grade: A, **Suggested Credit:** 1

Course Description: Literature and poetry study, novel writing, letter writing

Resources and Activities: Goodreads, National Novel Writing Month participant, free reading time, poetry writing and study (created Poet-Tree), online class/blog with another student via Skype for literature discussion and poetry sharing/feedback.

Highlights:

- Attended *Cornerboys* short film release
- Attended talks/dinner with authors Deb Marquart, Bruce George, and publisher Jen Woods
- Succeeded in National Novel Writing Month’s word count goal, making significant progress on writing a novel (used NaNoWriMo materials to develop the story)
- Attended Young Authors’ Celebration and Workshop at local middle school
- Joined the public library book club
- Attended university English composition class for unit on bibliographies; studied note-taking
- Discussed “Hamlet” and watched university performance
- Attended online seminar: “In the Beginning: What Makes for a Great Start in a Piece of Writing?” by Marc Aronsen
- Researched fair trade, globalization and economic justice using texts and online resources. Watched documentary on fair trade called *The Human Cost of Bargain Shopping* and drafted research-based letter to the editor about findings

Book List (selected titles):

- *The Strange Case of Dr. Jekyll and Mr. Hyde* by Robert Louis Stevenson
- *Magician’s Elephant* by Kate DiCamillo
- Dark is Rising series by Susan Cooper with research on Cornwall
- *Inkheart* trilogy by Cornelia Funke

- *Charlotte's Web* by E.B. White
- Bone series by Jeff Smith
- Sisters Grimm series by Michael Buckley
- *The Number Devil: A Mathematical Adventure* by Hans Magnus Enzensberger
- *The White Giraffe* by Lauren St. John
- The Roman Mysteries series by Caroline Lawrence
- The Chronicles of Prydain by Lloyd Alexander
- Hitchhiker's Guide series by Douglas Adams
- Mysterious Benedict Society series by Trenton Lee Stewart
- *Wrinkle in Time* by Madeleine L'Engle
- His Dark Materials trilogy by Philip Pullman
- *Mrs. Frisby and the Rats of NIMH* by Robert O'Brien
- *Un Lun Dun* by China Mieville
- *The Twenty-One Balloons* by William Pene Bois
- *Around the World in 80 Days*

World History I (Pre-History – 1500 CE)

Years Studied: Fall 2009-Spring 2011 (2 academic years as home education class)

Grade: A, **Suggested Credit:** 1

Course Description: Focused on the early civilizations of both hemispheres and western Europe to 1500 AD. Areas included Egypt, Babylon, Greece, Rome, the Crusades, and early Asian, African and American cultures, with emphasis on the western European story. Covered the beginning of intellectual activity, politics, and the formation of economic systems. Also emphasized cross-curricula connections of science, literature, philosophy, and the arts.

Year 1: Evolution, early humans, ancient Egypt, ancient Greece and Greek myths, beginning of Ancient Rome (pre-history – 146 BCE)

Texts, Resources, Activities: Used a research and lecture based approach. Student used library books to research timeline points and charted them on the classroom history timeline. Alternated between lectures and reading with hands-on projects and/or theater reenactments (including a student written and performed reenactment of the Trojan War). Resources included library books and PBS documentaries, *Horrible History* books, student-created historical timeline, *The Odyssey*, Liz Taylor's "Cleopatra."

Year 2: Ancient Rome, Celts, origins of holidays, Roman Britain, "Barbarians," Vikings, King Arthur, Middle Ages, Beowulf, Charlemagne, Inquisitions, Crusades, Islam and Christianity, Black Death, Magna Carta, Marco Polo; heavily discussed religion and its cultural/political effects during this entire block of history, with an introduction to Roman, Norse, Christian, and Islamic stories, as well as King Arthur legends (146 BCE – 1492 CE)

Texts, Resources, Activities: Used a research and lecture based approach. Student used library books to research timeline points, and charted them on the classroom history timeline. Alternated between lectures and reading with hands-on projects and/or theater reenactments, including a puppet play about the rise and fall of Rome. Resources included PBS and History Channel documentaries about Celts, Romans, The

Dark Ages, Vikings, Middle Ages, and Islam; also viewed History Channel's *Christmas Unwrapped* and the *History of Halloween*. Also included *Horrible History* books, history themed board games, and planned and prepared an authentic medieval feast.

Physical Science

Year Studied: 2010-2012 (2 academic years as home education class)

Grade: A, **Suggested Credit:** 1

Course Description: Exploration and experimentation in the physical sciences, including chemistry, Earth Science, the Scientific Method, motion, Newton's Laws, energy, heat, light, sound, fluid properties and electricity

Year 1 Topics covered: Alternative energies, motors, chemistry (periodic table, acids, bases, crystals, compounds and reactions), Science Olympiad: Shock Value (electricity/DC Theory), Solar System, Optics, Experimental Design (creating experiment and writing up report)

- Power House alternative energy experiment kit (motors, wind energy, passive and active solar energies; used solar panels from Power House and incorporated them into a Lego car)
- Teaching Company DVDs (Joy of Science series on chemistry, astronomy, optics, electricity)
- Atomic model building kits and various chemistry experiment kits, including Chem C1000
- *Chemical Chaos* (Horrible History series) and Basher books
- Elementeo board game
- Science Olympiad manuals and texts
- Stargazing with telescope; identified Jupiter and its four moons, and Saturn with clear rings
- Wrote and performed musical play about the elements
- Watched short videos about various elements; Discovery documentary on the periodic table; some Bill Nye Discoveries DVDs
- Worked through the entire *Elements: Ingredients of the Universe* curriculum
- Memorized and performed Periodic Table song (Lehrer version)
- Studies optics with lenses, texts, videos, diagrams, etc.
- Competed in Regional, State, and National Science Olympiad competitions

Year 2 Topics covered: Earth Science, home-based physics study, Science Olympiad (Rube Goldberg, Shock Value, astronomy, and trebuchet events)

- Took one semester of Earth Science at public middle school
- Visited Shedd Aquarium and the Field Museum in Chicago
- Watched online videos and The Way Things Work DVDs on simple machines
- *Forces and Motion Science Fair Projects* by Robert Gardner
- *Zombies and Forces and Motion* by Mark Weakland
- Disney DVDs on energy, trajectory, etc.
- Velocity experiments using Vernier data collector
- Great Courses Joy of Science lectures (fission and fusion, life cycle of stars)
- Read *Physics of the Future* by Michio Kaku
- Home-based Rube Goldberg planning and building (falling pendulum, etc.)
- Bill Nye DVDs (pressure, motion, etc.)
- TED-Ed talks; built rockets on Lego/NASA interactive site
- "Contraptions" kit building
- Attended university talk by Jack Bacon, "Futurist"