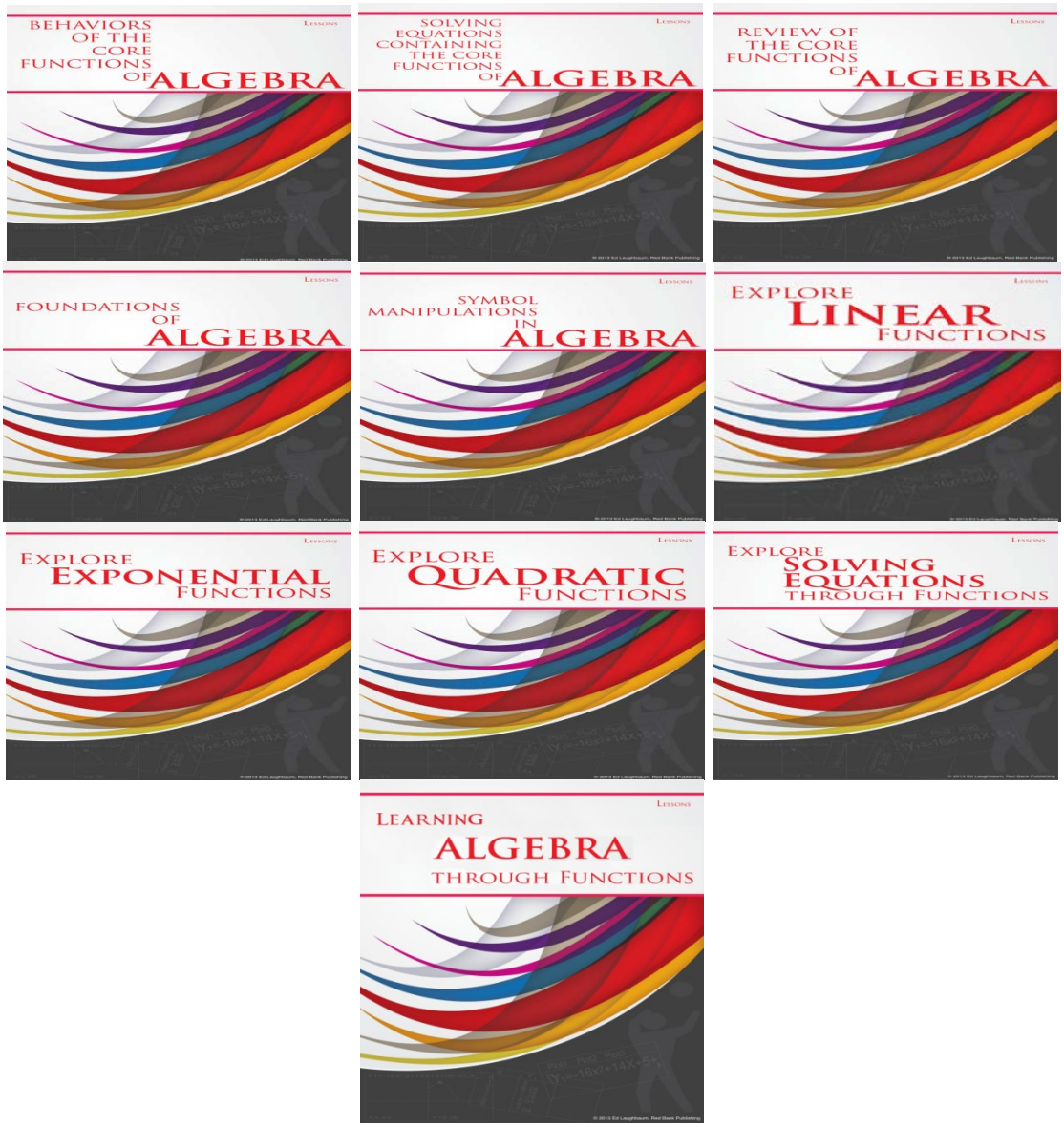
Teach **Algebra** through Questioning Using **Apps** for Tablets

The algebra apps listed below are lessons that facilitate learning through **questioning** with **immediate feedback**. They encourage students to look for patterns helping to discover the concepts/procedures in the lessons. Visualizations are crucial to understanding algebra; therefore, the graphing calculator is highly recommended. Like pattern generalizing and visualizations, connections are also essential to learning. The app lessons connect algebra through function. The apps are available at Amazon (Kindle App Store), iPad App Store, and Google Play. The 9 apps for tablets contain 81 lessons and 948 multiple-choice or open-ended questions. Each app is only $0.99. For a table of contents and a description of each app, click on the links below. Another option is to search on "Laughbaum" or "Red Bank Publishing" depending on which store you are using.



The app "Learning Algebra through Functions" is a catalog app with samples from each of the other apps and direct links to the other apps. Further information is below.

Each lesson is a series of questions; if you view the individual questions like traditional homework exercises, you will miss the concept behind the lessons. One must answer all the questions to process the understanding and creation of long-term memory goals of the lessons. That is, the questions are pattern-building activities leading to a mathematical outcome. As such, it is the entirety of the lesson that is crucial, and not an individual question.

Through pattern building, your brain will generalize the desired mathematical outcome. However, a word of caution, not following the specific directions included under the "?" at the bottom of each question may cause generalizations to fail. The brain needs the conditions established in the lessons to order to generalize.

Catalog App:
Learning Algebra through Function (or Learn Algebra through Function on Google Play)

App Description:
The 9 algebra apps are linked to this catalog app with the option to preview three items from the app, or to purchase any of the 9 apps. The catalog app is free.

As you review the three (3) sample questions from each of the apps, you need to be aware that judging one question will give a false impression of the lessons due to their pattern building nature. You must see the sequentially structured set of questions in each lesson to understand the intent and expected outcome from the lesson. Looking at two or three questions has the same outcome as trying to understand an "arm" by studying 2-3 cells in the arm. Also, please review the contents of the ⓘ at the bottom of the table of contents screen and at the bottom of the question screen.

Direct links for Catalog App Learning Algebra through Function:

For the iPad (iTunes or Apple App Store):
Search on "Laughbaum" for a link

From Google Play:
https://play.google.com/store/apps/details?id=com.redbankpublishing.learningalgebrathroughfunction&feature=search_result#?t=W251bGwsMSwyLDEsImNvbS5yZWRiYW5rcHVibGlzaGluZy5sZWFybmluZ2FsZ2VicmF0aHJvdWdoZnVuY3Rpb24iXQ..

From Amazon:
http://www.amazon.com/dp/B00CV5YJRW/ref=pe_245070_24466410_M1T1DP

Links for the iPad App Store with iPad App Titles

Behaviors of the Core Functions of Algebra
https://itunes.apple.com/us/app/behaviors-core-functions-algebra/id638181047?ls=1&mt=8

Solving Equations Containing the Core Functions of Algebra
https://itunes.apple.com/WebObjects/MZStore.woa/wa/viewSoftware?id=638187508&mt=8

Summative Review of the Core Functions of Algebra
https://itunes.apple.com/WebObjects/MZStore.woa/wa/viewSoftware?id=638191629&mt=8

Foundations of Algebra
https://itunes.apple.com/WebObjects/MZStore.woa/wa/viewSoftware?id=638199404&mt=8

Symbol Manipulations in Algebra
https://itunes.apple.com/WebObjects/MZStore.woa/wa/viewSoftware?id=638205361&mt=8

Explore Linear Functions
https://itunes.apple.com/WebObjects/MZStore.woa/wa/viewSoftware?id=640506111&mt=8

Explore Quadratic Functions
https://itunes.apple.com/WebObjects/MZStore.woa/wa/viewSoftware?id=640507087&mt=8

Explore Exponential Functions
https://itunes.apple.com/WebObjects/MZStore.woa/wa/viewSoftware?id=640508246&mt=8

Explore Solving Equations through Functions
https://itunes.apple.com/WebObjects/MZStore.woa/wa/viewSoftware?id=640508955&mt=8

Links for the iPad Digital Textbook *Foundations for College Algebra 3e*

Foundations for College Algebra 3e Part A: [Chapters 1-5]
https://itunes.apple.com/us/book/foundations-for-college-mathematics/id534452672?mt=11

Foundations for College Algebra 3e Part B: [Chapters 6-10]
https://itunes.apple.com/us/book/foundations-for-college-mathematics/id535054372?mt=11

Foundations for College Algebra 3e Part C: [Chapters 11-14]
https://itunes.apple.com/us/book/foundations-for-college-mathematics/id535070789?mt=11

Links for Amazon App Store (for the Kindle)

Behaviors of the Core Functions of Algebra
http://www.amazon.com/Red-Bank-Publishing-Behaviors-Functions/dp/B00CDPSWDC/ref=sr_1_4?s=mobile-apps&ie=UTF8&qid=1368106711&sr=1-4&keywords=red+bank+publishing

Solving Equations Containing the Core Functions of Algebra
http://www.amazon.com/Solving-Equations-Containing-Functions-Algebra/dp/B00CDPXRFU/ref=sr_1_2?s=mobile-apps&ie=UTF8&qid=1368106711&sr=1-2&keywords=red+bank+publishing

Summative Review of the Core Functions of Algebra
http://www.amazon.com/Summative-Review-Core-Functions-Algebra/dp/B00CDQ2C5K/ref=sr_1_6?s=mobile-apps&ie=UTF8&qid=1368106711&sr=1-6&keywords=red+bank+publishing

Foundations of Algebra
http://www.amazon.com/Red-Bank-Publishing-Foundations-Algebra/dp/B00CDQ6A58/ref=sr_1_3?s=mobile-apps&ie=UTF8&qid=1368106711&sr=1-3&keywords=red+bank+publishing

Symbol Manipulations in Algebra
http://www.amazon.com/Red-Bank-Publishing-Manipulations-Algebra/dp/B00CDQDXUI/ref=sr_1_1?s=mobile-apps&ie=UTF8&qid=1368106643&sr=1-1&keywords=red+bank+publishing

Explore Linear Functions
http://www.amazon.com/Explore-Linear-Functions-Kindle-Edition/dp/B00CL8C4LW/ref=sr_1_5?s=mobile-apps&ie=UTF8&qid=1368106711&sr=1-5&keywords=red+bank+publishing

Explore Quadratic Functions
http://www.amazon.com/Explore-Quadratic-Functions-Kindle-Edition/dp/B00CL8EQMM/ref=sr_1_7?s=mobile-apps&ie=UTF8&qid=1368106711&sr=1-7&keywords=red+bank+publishing

Explore Exponential Functions
http://www.amazon.com/Explore-Exponential-Functions-Kindle-Edition/dp/B00CL8HM64/ref=sr_1_9?s=mobile-apps&ie=UTF8&qid=1368106711&sr=1-9&keywords=red+bank+publishing

Explore Solving Equations through Functions
http://www.amazon.com/Explore-Solving-Equations-through-Functions/dp/B00CL8KMRA/ref=sr_1_8?s=mobile-apps&ie=UTF8&qid=1368106711&sr=1-8&keywords=red+bank+publishing

Links for Google Play with Google Play App Titles

Core Function Behaviors
https://play.google.com/store/apps/details?id=com.redbankpublishing.summativereviewofthecorefunctionofalgebra&hl=en

Solving Equations by Functions
https://play.google.com/store/apps/details?id=com.redbankpublishing.solvingequationscontainingthecorefunctionofalgebra&hl=en

Review-Core Function Behaviors
https://play.google.com/store/apps/details?id=com.redbankpublishing.summativereviewofthecorefunctionofalgebra&hl=en

Foundations of Algebra
https://play.google.com/store/apps/details?id=com.redbankpublishing.foundationofalgebra

Core Symbol Manipulations
https://play.google.com/store/apps/details?id=com.redbankpublishing.symbolmanipulationinalgebra&hl=en

Explore Linear Functions
https://play.google.com/store/apps/details?id=com.redbankpublishing.explorelinearfunction&hl=en

Explore Quadratic Functions
https://play.google.com/store/apps/details?id=com.redbankpublishing.explorequadraticfunction&hl=en

Explore Exponential Functions
https://play.google.com/store/apps/details?id=com.redbankpublishing.exploreexponentialfunction&hl=en

Explore Equations by Functions
https://play.google.com/store/apps/details?id=com.redbankpublishing.exploresolvingequationthroughfunctions&hl=en