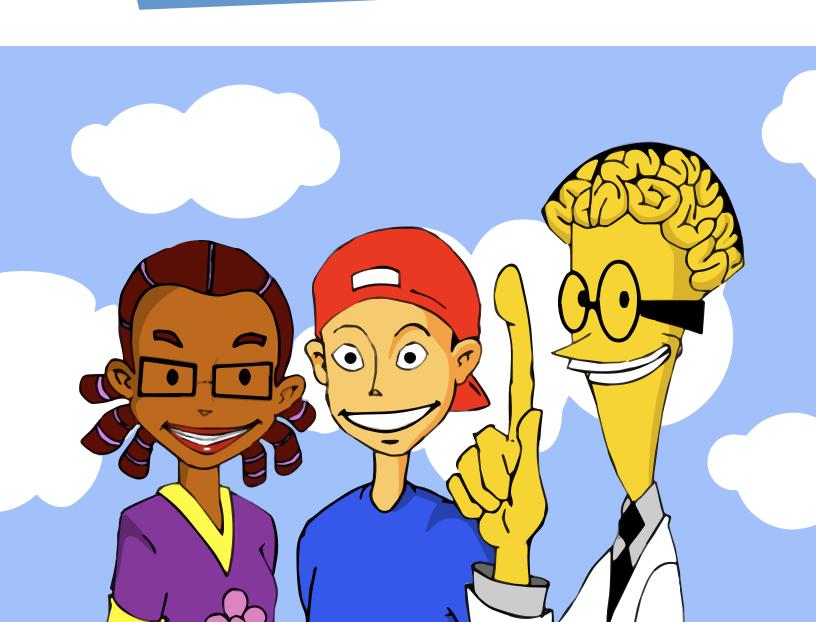


BRAINOLOGY® FOR SCHOOLS



Sample Implementation Guide

Other Mindset Works® Programs

Mindset Works' programs help students and educators become more motivated and effective learners.



BrainoLogy®

Brainology® for Schools is a blended learning curriculum that teaches students how to develop a growth mindset. The program includes online animated instructional units, as well as offline classroom activities. Brainology for Schools also comes with a Spanish language option, Brainology en Español!



BRAINOLOGY®

Brainology® for Home is a blended learning curriculum that teaches students how to develop a growth mindset. The program includes online animated instructional units, as well as offline classroom activities. Brainology for Schools also comes with a Spanish language option, Brainology en Español!



MindsetMaker[™] Online Professional Development

This online Professional Development course for teachers provides tools and resources needed to shift teachers' practice and cultivate a growth mindset culture of teaching and learning within their classroom.





Growing Early MindsetsTM (GEMTM) is an early learning curriculum designed to integrate growth mindset into the PreK-3 classroom. Note: The GEM curriculum will be available for purchase in 2016.



SchoolKit

Mindset Works SchoolKit is a suite of resources (including Brainology® for Schools, MindsetMaker and LeaderKit) developed to cultivate a growth mindset school culture. It contains tools for administrators, teachers, and students to learn, teach and live the growth mindset.



Live Training

Our professional learning specialists deliver engaging, high-quality talks and workshops to help your school or district learn how to cultivate a growth mindset culture. Using reflection, discussion, activities, games, videos, and practical tools and resources, we can promise an interactive session that has lasting impact for both immediate and future change.



LeaderKit™

The LeaderKit™ is a valuable resource for school leaders to use to help foster a growth mindset across a school. When leaders model a growth mindset, it sets the stage for all stakeholders to follow. Note: LeaderKit will be available for purchase in 2016.





The Mindset Infusion™ Tools for Math and Literacy contain lessons, tools and resources for educators to use all year to cultivate growth mindsets in their students in Math and English classrooms, grades 6-8. Note: Mindset Infusion Tools will be available for purchase in 2016.



Learn more about Mindset Works' programs at:

www.mindsetworks.com



The Brainology® Curriculum: Teaching a Growth Mindset

What are Mindsets?

Mindsets are the beliefs that people hold about their attributes. When people believe that their attributes—such as intelligence—are unchangeable, they hold a Fixed Mindset. When they believe that these attributes can be developed through learning, they hold a Growth Mindset.

Decades of research by Dr. Carol Dweck and colleagues show that when people understand that they can develop their intelligence through learning, they are motivated to seek challenge, value learning, invest effort, and persist through difficulty—and they achieve more highly. Furthermore, the Growth Mindset can be taught.

What is Brainology®?

Brainology is a research-based method for teaching students a Growth Mindset, along with the tools to put it into practice. The Brainology curriculum combines online, interactive animation with classroombased activities to teach students how the brain changes with learning, and how they can use brain-based study strategies to accelerate their progress.

How do I get started?

The Brainology Implementation Guide will walk you through the process. It is organized in 3 sections, as follows:

- **Get Ready!** provides an overview of the purpose and structure of the Brainology Curriculum.
- Get Set! provides recommendations and tools for planning, and technical instructions on how to implement the program.
- **Go!** provides step-by-step guidance on teaching Brainology in the classroom. The Go! Guide is chunked into an Introductory Unit and four Units of classroom activities and reproducibles for use with students.

On the next page, you will find a Table of Contents for the complete guide.



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III.	Go! Lessons and Materials Guide: Introductory Unit
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Get Ready!

Part I. Curriculum Overview: Research Foundation & Planning **Guide for Teachers**

Building Students' Confidence, Fulfillment, and Achievement Through the Understanding of Expandable Intelligence



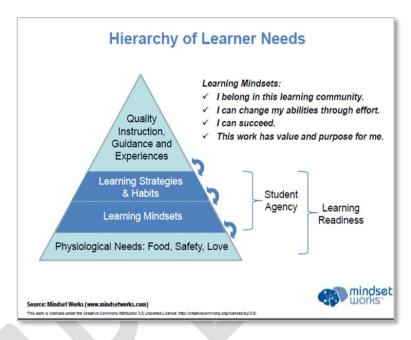


Why Teach Brainology®? Mindsets and Student Agency

Mindsets and Student Agency

What do students need to succeed? We know that they need good curriculum and instruction, including appropriate levels of challenge and support. But even before that, they need to be *ready* to learn—to have the attitudes, skills, and habits of effective learners.

The Raikes and Lumina Foundations commissioned the UChicago Consortium on Chicago Student Research (CCSR) to conduct a research literature review to determine what adolescents need to become learners. CCSR determined that there are several critical factors that together contribute to building student



agency—the belief that they can achieve and that they have the knowledge and strategies needed to do SO.

"The best ways to improve students' perseverance and strengthen their academic behaviors is through academic mindsets and learning strategies. This is the central point emerging from our review." CCSR Review: Farrington, Roderick, et. al, 2012.

Highlights from the CCSR Report:

- We can **positively change student mindsets** in a real world setting, which impacts real performance in academics and more broadly.
- Mindset interventions reduce the achievement gap. (REL 2012)
- Focusing on study skills without the mindset component is ineffective.
- Embedding mindset cultivation in a school-wide context and as a part of school culture is most supportive to learners.

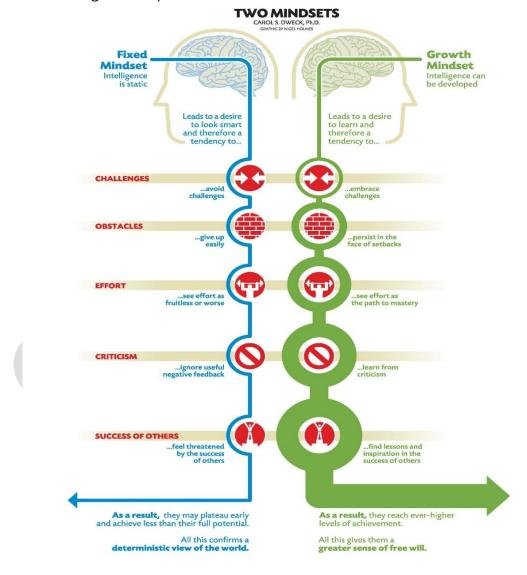
"Notably, across the empirical literature, one's beliefs about intelligence and attributions for academic success or failure are more strongly associated with school performance than is one's actual measured ability (i.e., test scores)." - Farrington, Roderick, et. al. 2012

Among these critical academic mindsets, the Growth Mindset plays a central role in helping students to forge a sense of self-efficacy. At Mindset Works, we have developed the Brainology program to help teachers and schools cultivate a growth mindset and improve the learning strategies of their students.



The Growth Mindset: An Overview

Mindset is a powerful yet simple idea discovered by Professor Carol S. Dweck of Stanford and her colleagues in decades of research on motivation, achievement, and success. Mindsets are beliefs individuals hold about their most basic qualities and abilities. In a **Growth Mindset**, people believe they can develop their brain, abilities, and talents. This view creates a love for learning, a drive for growth and a resilience that is essential for great accomplishments. On the contrary, people with a **Fixed** Mindset believe that basic qualities such as intelligence and abilities are fixed, and can't be developed. They also believe that talent alone creates success, and see effort as a sign of weakness rather than as an effective strategy needed to reach one's full potential. The following diagram shows how people with different views of intelligence respond in different situations:



www.mindsetworks.com



Decades of research show that when people understand that they can develop their intelligence through learning, they are motivated to seek challenge, value learning, invest effort, and persist through difficulty—and they achieve more highly. Moreover, the Growth Mindset can be taught.



Brainology®: Developing a Growth Mindset

Brainology is designed to help students to develop a Growth Mindset and, as a result, to reach a higher level of academic achievement. Students with a growth mindset think of their intelligence as something that they can develop through learning and study rather than as something fixed. Cultivating a growth mindset can help increase students' sense of self-efficacy and their motivation to learn.

Brainology is based on decades of research by leading experts in the area of motivation. Psychologists Carol S. Dweck, Ph.D. and Lisa Sorich Blackwell, Ph.D. discovered that developing a Growth Mindset helps students to value learning, invest effort, and improve their academic performance. (See Blackwell, Trzesniewski, & Dweck, 2007.) They developed the Brainology program to help students cultivate a Growth Mindset by teaching them the powerful combination of the malleable brain lesson and effective study skills.

Brainology helps students develop a growth mindset by teaching them how the brain functions, learns, and remembers, and how it changes physically when we exercise it through study and learning. In addition, the program teaches a practical set of skills for tackling academic challenges by showing students how to apply what they have learned about the brain to their schoolwork.

The Brainology program has been implemented in hundreds of schools with great results. When students realize that they control their learning, they are motivated to apply effort and take an active role in learning. Teachers note positive changes in students' behavior (becoming engaged in class, reflecting, asking questions, doing homework), as well as in the higher student achievement that results from more motivated students with higher expectations of themselves.

Brainology is a blended learning curriculum that includes an interactive multimedia online program and classroom activities. In an introduction plus four 30-minute units, students follow animated teenaged characters Chris and Dahlia as they tackle various problems in their most difficult subjects. They visit the lab of eccentric brain scientist Dr. Cerebrus and learn about the basic structure and function of the brain: how thinking occurs, how learning and memory work, how to develop and change the brain, and how to improve their study habits and skills in light of this knowledge. They gain experience in visualizing and applying these ideas through interactive activities and exercises. Throughout the program they reflect on their challenges and their learning through an e-Journal, and they engage in classroom activities to connect, reinforce, and practice what they learn in the context of their own experience. This curriculum helps students understand that they have great, untapped potential and that the development of their mental ability is largely within their own control, and provides them with study habits and skills that they can use to achieve highly.

Through this Curriculum Guide for Teachers, we will help you support your students by providing information and strategies that you can use to reinforce their growth mindset development.



Cultivate a Growth Mindset Through Process Praise

Focus on leading your students' mindset shift

There's much you can do every day, in every interaction with your students, to reinforce the growth mindsets they are developing. For example, the type of praise a student receives profoundly influences his or her mindset. Research has shown that praising students for their intelligence after they succeed on a task can set them up to hold a fixed mindset. They seek to protect themselves by avoiding challenge; and when they do encounter failure, their motivation and performance plummet. On the other hand, when students are praised for their effort and strategy, they get excited about challenges and stay resilient in the face of failure. So it is important that you reinforce the growth mindset with process praise.

How? Here is an excerpt from an article Prof. Dweck wrote for Educational Leadership:

Praising students for their intelligence, then, hands them not motivation and resilience but a fixed mind-set with all its vulnerability. In contrast, effort or "process" praise (praise for engagement, perseverance, strategies, improvement, and the like) fosters hardy motivation. It tells students what they've done to be successful and what they need to do to be successful again in the future. Process praise sounds like this:

- You really studied for your English test, and your improvement shows it. You read the material over several times, outlined it, and tested yourself on it. That really worked!
- I like the way you tried all kinds of strategies on that math problem until you finally got it.
- It was a long, hard assignment, but you stuck to it and got it done. You stayed at your desk, kept up your concentration, and kept working. That's great!
- I like that you took on that challenging project for your science class. It will take a lot of work—doing the research, designing the machine, buying the parts, and building it. You're going to learn a lot of great things.

What about a student who gets an A without trying? I would say, "All right, that was too easy for you. Let's do something more challenging that you can learn from." We don't want to make something done quickly and easily the basis for our admiration.

What about a student who works hard and doesn't do well? I would say, "I liked the effort you put in. Let's work together some more and figure out what you don't understand." Process praise keeps students focused, not on something called ability that they may or may not have and that magically creates success or failure, but on processes they can all engage in to learn. —Carol Dweck, 2007

In addition, keeping a consistent and visible growth mindset orientation in your classroom can be a key component of reinforcing what your students learn in the Brainology® program. Here are a few more suggestions for integrating Brainology terminology and activities into your classroom:

- Are your students losing focus on the lesson? Ask them if they are "using all their channels"!
- Are your students struggling with a difficult challenge? Remind them that their neurons are growing most when things seem most difficult.
- Do your students have projects to complete? Have them use the Brainology Study Guide and Study Plan!



Brainology® Curriculum Overview

Structure of the Online Curriculum:

The Brainology online curriculum is composed of a \sim 10 minute introduction and four \sim 30 minute units (depending on how much time the students spend on optional activities such as reading Chris' & Dahlia's e-journal entries and entering their own). We recommend doing no more than one of these four main units each week so that children have time to reflect, integrate takeaways into their own lives, and incorporate the offline materials.

- The Introduction to Brainology® presents the curriculum and its purpose, the characters that will guide the students throughout the program, and the tools available (e.g., the e-Journal, Map, Brain Book and Help). Users also create an inventory of their personal challenges so they can more easily relate the Brainology lessons to their lives.
- Unit 1: Brain Basics introduces the basics of brain structure and function. This unit also explains
 what is required to maintain readiness to learn and how attention and concentration are
 supported. This unit teaches students the physical aspect of thinking and learning, which underlie
 a growth mindset.
- In **Unit 2: Brain Behavior**, students learn that the brain functions by sending chemical messages through a network of nerve cells, and that these cells are responsible for thought. This insight provides a foundation for understanding how learning changes the brain. They also learn how emotions can influence the brain and are taught strategies for managing their negative emotions and enhancing their positive ones.
- In **Unit 3: Brain Building**, students discover how learning changes the brain through the growth of connections in neural networks with repeated use, the key to the growth mindset. Students learn that intelligence can be developed through mental exercise, and they are introduced to activities that promote learning.
- Unit 4: Brain Boosters extends the concept of the malleable brain to understand the processes of memory. The unit introduces a variety of study strategies to capitalize on the way the brain works and learns to deepen and reinforce the students' understanding of the growth mindset, and to guide the student to the study skills resources

Ground yourself in Mindset theory

While it is possible to spend a lifetime investigating the psychology of motivation and achievement, you don't have to in order to be very successful with Brainology. Some background in the theory is needed, however. If you have the time, the inclination, and the opportunity, we recommend that you read Dr. Dweck's book, *Mindset: The New Psychology of Success*.

If this isn't the right moment for you to read the book, we suggest reading these three articles (which are all freely available on the internet):

- ▲ Even Geniuses Work Hard
- ▲ The Power (and Peril) of Praising Your Kids
- ▲ Boosting Achievement with Messages that Motivate





Get Set!

Part II. Planning & Setup: Scheduling & Technical Guide For Teachers

Building Students' Confidence, Fulfillment, and Achievement Through the Understanding of Expandable Intelligence





Plan Your Implementation

This section of the Guide covers the activities required to carry out a successful Brainology® implementation. The material in the *Get Ready!* section should have provided a general overview of the goals, content, and operation of the program. The next step is to review what needs to happen and make detailed plans. A well-known maxim holds that failing to plan is planning to fail. A little preparation goes a long way towards ensuring a successful implementation of Brainology.

Identify and prepare the implementation team

The critical first step is to identify who will be leading the implementation. If you are a teacher who has brought Brainology to your classroom on your own initiative, look in the mirror. If you are an administrator, an instructional coach, a counselor, or other educational leader who has brought Brainology® to a group of classrooms, you need to decide whether or not you will be part of the day-today implementation. If not, identify who will be responsible for leadership, coaching, and coordination.

Whoever is responsible for leading the implementation should start by sharing this guide with the rest of the team. We recommend spending some time with the team to review the process and plans and ensure that everyone is becoming well-prepared.

If you're not leading the implementation, coordinate with whoever is to be sure you're fully aware of the schedule.

Plan the implementation schedule

The key features of a best-practices implementation of Brainology are these:

- The online units are presented at least a week apart.
- All of the classroom activities are completed.

As a result, you should plan to spend about fifteen-twenty hours over at least six weeks on Brainology. There is considerable flexibility in the implementation process:

- With a little extra reinforcement along the way, the online units can be spaced two or even three weeks apart.
- Many of the additional classroom reinforcement activities can be spread out over two or three days if you prefer not to devote a complete period to them.
- △ The online Brainology units can be paused and resumed, so those can each be split over a couple of days, too, if necessary.
- ▲ Some of the classroom activities can be assigned as homework.

Your implementation can occur in one classroom, or can be part of a school-wide implementation. In the case of school-wide implementation, consider how the computer lab sessions will be spaced out and whether the lab sessions could occur in a content area class, while the classroom-setting lessons occur in another setting (like an Advisory or Homeroom).

You should feel comfortable planning the schedule to coordinate with your own circumstances (length of class periods, holidays, testing schedules, availability of computer lab time, etc.). We strongly recommend that you take the time to plan specific dates for Brainology® – even if you expect to have to adjust them later.

Scheduling Options

Brainology® is a blended learning curriculum that requires a total of about 15-20 hours of classroom time to teach, which includes about 2.5 hours of online activities, in 20 sessions over 5-20 weeks. It can accommodate different schedules, as follows:

- **Length of Class Period:** The optimal length of a class period for Brainology is 45 minutes, which permits ample time for each activity to be completed within one session. It can also work within shorter (30 minute) or longer (60 minute) periods.
- **Number of Sessions per Week:** Brainology can be taught in 1-4 sessions per week.
- Number of Weeks to Complete: Depending on the length of class periods and number of sessions per week, Brainology can take from 5-20 weeks to complete.

Here is a sample 10-week implementation schedule:

Sample 10-week, 20-session implementation schedule with 45 min. per session					
Week	Unit	Day	Activity Day		Activity
1	Intro	Tuesday	Activity I-1 (offline)	Thursday	Activity I-2 (online)
2	Intro	Tuesday	Activity I-3 (offline)	Thursday	Activity I-4 (offline)
3	Unit 1	Tuesday	Activity 1-1 (offline)	Thursday	Activity 1-2 (online)
4	Unit 1	Tuesday	Activity 1-3 (offline)	Thursday	Activity 1-4 (offline)
5	Unit 2	Tuesday	Activity 2-1 (offline)	Thursday	Activity 2-2 (online)
6	Unit 2	Tuesday	Activity 2-3 (offline)	Thursday	Activity 2-4 (offline)
7	Unit 3	Tuesday	Activity 3-1 (offline)	Thursday	Activity 3-2 (online)
8	Unit 3	Tuesday	Activity 3-3 (offline)	Thursday	Activity 3-4 (offline)
9	Unit 4	Tuesday	Activity 4-1 (offline) Thursday Activity 4-		Activity 4-2 (online)
10	Unit 4	Tuesday	Activity 4-3 (offline)	Thursday	Activity 4-4 (offline)

Each unit also contains alternative activities to accommodate learners with different needs and skills. On the next page you will find a blank Brainology Planning Calendar. You can also find an automated planning tool on our website. It may be helpful to include the calendar in your lesson plans and fill in the dates for when you plan to complete the activities.



Brainology® Planning Calendar

Unit	Activity #	Activity	Date
	I-1	"Connect It": Mindset Assessment Profile (MAP) and Reflection	
Intro	I-2	"Check It": Online Brainology Intro and Formative Assessment	
	I-3	"Practice It": You Can Grow Your Intelligence	
	I-4	"Apply It": Values Lesson and Reflection	
	1-1	"Connect It": Information Search <i>and</i> Scan <i>or</i> Inventory	
1 Brain	1-2	"Check It": Online-Brainology Unit 1 and Formative Assessment	
Basics	1-3	"Practice It": Effective Effort	
	1-4	"Apply It": John's History Test	
	2-1	"Connect It": Overcoming Challenges	
2 Brain	2-2	"Check It": Online Brainology Unit 2 and Formative Assessment	
Behavior	2-3	"Practice It": Scan <i>or</i> Inventory <i>and</i> Emotions & Learning Handout	
	2-4	"Apply It": Alicia's Presentation	
	3-1	"Connect It": The Two Mindsets Part 1 and Reflection	
3 Brain	3-2	"Check It": Online Brainology Unit 3 and Formative Assessment	
Building	3-3	"Practice It": Mindset Scan and Reflection	
	3-4	"Apply It": Scientific Research Brief	
	4-1	"Connect It": The Two Mindsets Part 2	
4 Brain	4-2	"Check It": Online Brainology Unit 4 and Formative Assessment	
Boosters	4-3	"Practice It": Brain Study Plan or Learning Strategies Scan	
	4-4	"Apply It": Class Motto	



Technical Setup - Using the Brainology® Website

The Brainology curriculum is centered around the online instructional units for students. As a teacher, you have visibility into your students' progress and interaction with the online curriculum. You also have access to administrative tools to manage student accounts (and your own). This section provides step-by-step instructions for those interactions with the website, organized approximately in the order you will need them as you proceed through your implementation.

Creating and managing your own account

Joining a school account

If you don't already have a user name and password, and your school has already purchased Brainology, your site leader has an **Access Code** that you will need to register. If you're having any difficulty identifying your site leader or any uncertainty about the Access Code, feel free to contact Brainology support at support@mindsetworks.com or 888-344-6463. Once you have the Access Code, follow these steps:

- 1. Go to the Brainology website homepage at www.mindsetworks.com,
- 2. Click on the orange **Sign Up** button in the upper right corner of the page.
- 3. Select **Educator**, and continue the registration process.
- 4. **Check your email** to activate your account. Check your spam folder if it hasn't arrived within a few minutes.
- 5. When you create an account, you are automatically enrolled in a Free Preview of Brainology. To gain full access to your Programs, go to My Account, then My Programs.
- 6. On the My Programs page, enter your Access Code.
- 7. You now have full access to the online Brainology units, the supporting materials, and the rest of the administrative controls.

Changing your password and profile picture

- 1. Go to the Brainology website homepage at www.mindsetworks.com and Login.
- 2. Go to **My Account**, accessed at the top right corner of the page after Login.
- 3. Select My Profile. You can change your personal information on this page.

Resetting your password or retrieving your Login information

Note: Your password is securely encrypted and cannot be retrieved by anyone. If you forget your password, you must reset it on the Mindset Works website.

- 1. Go to the Brainology website homepage at www.mindsetworks.com and Login.
- 2. Select the Forgot Username, Forgot Email address, or Forgot Password and follow the instructions to appropriate instructions.



Set up for your classes

Creating Classes and Class Codes

The Brainology[®] administrative system organizes students by classes. Typically, a teacher will create one class for each group of students. Creating a class generates a Class Code. Teachers distribute the Class Code, and then students can create their own Brainology login usernames and passwords using the code supplied by the teacher.

To create classes and their associated class codes, follow the steps below.

- 1. Go to the Brainology website homepage: www.mindsetworks.com.
- 2. Log In, and then go to My Account.
- 3. Go to My Students. Select the blue button to Add New Class.
- 4. Enter a name for your class, then select Save Class and Add Students.
- 5. Next, select **Add Students** for the class you just created.
- 6. Locate the **Class code** in the grey box. This code can be used to register your students in Brainology.

Adding Students to Your Class

Follow the instructions on the page to Add Students to Class. You have two options:

- 1. Distribute the **Class Code** to your students, and they will self-register at <u>www.mindsetworks.com</u>. Instructions for the student are on the next page; you may wish to print them out and have them on the first day you do Brainology online. If you choose this enrollment option, be sure to write down the Class Code and keep it safe.
- 2. Download our spreadsheet template. Next you will fill in your students' names, usernames, passwords, and grade level, and upload it on the same page. This is the Batch Upload option.

Viewing your list of students

To see a list of the students who have registered with Class Codes you have provided, follow these steps:

- 1. Go to the Brainology website homepage: www.mindsetworks.com.
- 2. Log In, and then go to My Account.
- 3. Go to My Students.
- 4. Locate the class you wish to view, and select View Class.
- 5. Here you can see a guick snapshot of the students' names, usernames, and status in the program.



Instructions for Students: How to enroll in Brainology® with a Class Code

Once your teacher gives you a Class Code to enroll in Brainology, follow these steps to create your own username and password and start Brainology!

- 1. Go to the Brainology home page, http://www.mindsetworks.com.
- 2. On the top right corner of the page, click on Sign Up. If you don't see an option to Sign Up, click Log Out on the top right corner of the page, and then click Sign Up.
- 3. Select the **Student** button.
- 4. Enter the **Class Code** that your teacher gave you.
- 5. Fill out your information on the next page, choosing a username and password that you will easily remember, and then click Continue.
- 6. Please write down your username and password so you don't forget them! Write them in the space below or on a different piece of paper and keep it in a safe place.
- 7. To launch the program, click on "Go to Brainology!"
- 8. There are also additional resources and tools for you to check out in the My Programs, My **Resources**, and **Help** sections of **My Account**.
- 9. We hope you enjoy it and learn a lot!!!

Student Login Information	
Name:	
Username:	
Password:	
Keep this in a safe place or give it to your teacher.	



Changing your students' passwords

Student passwords are securely encrypted and cannot be retrieved by anyone. If a student should forget his or her password, follow these steps to create a new one.

- 1. Go to the Brainology® website homepage: www.mindsetworks.com.
- 2. **Log In,** and then go to **My Account.**
- 3. Go to My Students.
- 4. Locate the class of the student who needs their password reset, and select View Class.
- 5. Find the student's name, then select **Change Password**.
- 6. Enter the **new password** and confirm.

Tracking your students' progress

Viewing student data at a glance

Teachers can view their students' progress and reflections in the Brainology program. You can see responses to Pre- & Post-Program Surveys, e-journal reflections, activity dates and level complete.

To view student data:

- 1. Go to the Brainology website homepage: www.mindsetworks.com.
- 2. Log In, and then go to My Account.
- 3. Go to My Students. Find the class you wish to see, and select View Class.
- 4. Find the student whose data you wish to review, and select View Data.

Downloading and viewing students' data by class

To see how far your students have progressed through the online Brainology units, see their responses to the brief mindset assessment survey incorporated within the online Brainology units, or see their ejournal entries all in one spreadsheet for the whole class, follow these steps:

- 1. Go to the Brainology website homepage: <u>www.mindsetworks.com</u>.
- 2. Log In, and then go to My Account.
- 3. Go to My Students.
- 4. Locate the class you wish to view, and select View Class.
- 5. Select the dark blue button **Download Student Data to Excel.**
- 6. Open the Excel document and review the data.



Viewing your available licenses

The licenses your school has purchased are held in a pool associated with the organizational access your site leader provided to you. Each time a student registers using a Class Code, a license is removed from the pool. To see how many licenses are available to you, follow these steps:

- 1. Go to the Brainology® website homepage: www.mindsetworks.com.
- 2. Log In, and then go to My Account.
- 3. Go to My Programs.
- 4. Locate the Brainology program package, and select View Order.

Purchasing additional licenses

The licenses your school has purchased are held in a pool associated with the organizational access your site leader provided to you. Each time a student registers using a Class Code, a license is removed from the pool. To see how many licenses are available to you, follow these steps:

- 1. Go to the Brainology website homepage: <u>www.mindsetworks.com</u>.
- 2. **Log In**, and then go to **My Account**.
- 3. Go to My Programs.
- 4. Locate the Brainology program package, and select **Add Licenses**.





Brainology® Tips for the Computer Lab

Checklist for the Online Program

- ☐ Headsets/earphones: Remember to bring them or ask students to bring their own.
- ☐ Make 3x5 cards for each student with his/her name, Brainology user name, and password. You can use these cards to "call on" students later during discussions/sharing out.
- □ **To Launch Brainology**, students must sign up with a class code and set up an account, or batch uploaded by you or an administrator. If you have a list of usernames and passwords, provide them to the students on the 3x5 cards. When they log in, they simply click **Go to Brainology!**
- ☐ Pause! When students go to the restroom or pencil sharpener, make sure they don't leave the program running. Ask them to click the pause button before walking away.

Online Program Navigation

- ✓ **The map** on the left tells you where kids are. Click it to check on students who are behind or going farther than you want.
- ✓ **Save and Exit** button is important to click when students are finished to make sure the students can pick up where they left off.
- ✓ Be available for the miscellaneous tech support that the students will need. **Walk around a lot** the first few online days to monitor and help.



If you need any help, feel free to contact Brainology® support at support@mindsetworks.com or 888-344-6463.





GO!

Part III: Lessons & Materials Guide For Teachers

Building Students' Confidence, Fulfillment, and Achievement Through the Understanding of Expandable Intelligence





Part III: Lessons and Materials Guide for Teachers

Overview: This section of the Implementation Guide contains detailed information about the content of each unit of the Brainology® Online Curriculum, as follows:

- The Introduction to Brainology® presents the curriculum and its purpose, the characters that will guide the students throughout the program and the tools available (e.g. the e-Journal, Map, Brain Book and Help). Users also create an inventory of their personal challenges so they can more easily relate the Brainology® lessons to their lives.
- **Unit 1: Brain Basics** introduces the basics of brain structure and function. This unit also explains what is required to maintain readiness to learn and how attention and concentration are supported. This unit teaches students the physical aspect of thinking and learning, which underlie a growth mindset.
- In **Unit 2: Brain Behavior**, students learn that the brain functions by sending chemical messages through a network of nerve cells, and that these cells are responsible for thought. This insight provides a foundation for understanding how learning changes the brain. Students also learn how emotions can influence the brain and are taught strategies for managing their negative emotions.
- In **Unit 3: Brain Building**, students discover how learning changes the brain through the growth of connections in neural networks with repeated use, the key to the growth mindset. Students learn that intelligence can be developed through mental exercise, and they are introduced to activities that promote learning.
- Unit 4: Brain Boosters extends the concept of the malleable brain to understand the processes of memory. The unit introduces a variety of study strategies to capitalize on the way the brain works and learns to deepen and reinforce the students' understanding of the growth mindset, and to guide the student to the study skills resources.

Differentiating Instruction: Throughout the next five **Go!** Curriculum Guides, many lessons have been modified so that you can differentiate and scaffold your instruction for the unique needs of your students. Several lessons have two options: Option A is intended for On-Level or Advanced Learners, and Option B is intended for Below-Level Learners (based on a 7th grade level).

Whenever you see the icon, look for tips to differentiate your instruction for process, product, or content, and ways to scaffold the material for all learners.

- **Process** refers to how a student comes to understand the material.
- **Product** refers to the work product in which the student demonstrates mastery.
- **Content** refers to adjusting the material based on prior knowledge of the student.



Organization: Each unit of the Teachers' Guide contains the following sections:

- I. **Overview and Goals** provides a description of the instructional goal of the unit, the key challenge in student motivation, recommended readings, and key content contained in the unit.
- II. Lesson Plans has suggestions for teacher practice, and an explanation of the research-based principals underlying these recommendations, and a sample outline of lessons for that unit.
- III. Reproducibles and Handouts contains instructions and printable materials for classroom activities that support the learning of the key concepts in that unit of Brainology®. These activities are organized as follows:

Connect It activities are intended to be used before the introduction of a new unit of Brainology In these activities, students activate their prior knowledge and/or prior learning in the Brainology program to heighten their readiness to learn and interest in the content of the upcoming unit. These activities connect to students' lives, to their experiences with other texts or learning, and to other lessons in this program.

Check It quizzes are provided for the purpose of using as a formative assessment. The teacher can allow the student to fill in the *Check It* while they complete the online lesson, to keep them focused on a goal. They may also be used to diagnose the extent to which students have grasped the information in each unit. If the *Check It* shows that students have gaps in their understanding and need further practice, the teacher can differentiate and remediate using the Additional Activities provided.

Practice It activities are provided for the purpose of deep practice. In these lessons, students have the opportunity to interact with the information at an instructional level towards the goal of increasing understanding of the content and learning to use their knowledge independently.

Apply It activities can be used to enhance metacognition by allowing students to apply their new knowledge in a variety of ways. These scenarios can also be used to assess the depth of student understanding in relation to the content in Brainology.

Additional Activities are included at the end of each unit. While not a part of the core curriculum, they are meant to deepen students' understanding of the key concepts. The Additional Activities provide opportunities to express this understanding through a wider variety of learning modalities, and to apply them to their own learning.

Supplies: Please review the lesson plans prior to instruction to be sure you have the necessary materials.



Introductory Unit: An Overview

Unit Goal

Students complete a Mindset Assessment Profile which will explore their beliefs and attitudes about learning, effort, and challenge. The MAP is used as a pre- and post-program activity, with the expectation that once students finish the Brainology® program, they will have moved toward a growth mindset. In this unit, students are also introduced to the Brainology online program and resources, and to the concept of a growth mindset through reading and reflecting on an article which presents evidence of malleable intelligence.

Activities

Activity #	Activity	Lesson Plan	Handout
Intro-1	 "Connect It" - Complete both: Mindset Assessment Profile (MAP) survey 	Pg. #	Pg. #
Intro-2	 Brainology Reflection Questions 1-6 "Check It" - Complete both, together: Online Brainology Introduction Formative Assessment 	Pg. #	Pg. #
Intro-3	"Practice It" - "You Can Grow Your Intelligence" - Choose one: Option A. Plain Text Version or Option B. Interactive Text Version	Pg. #	Pg. #
Intro-4	"Apply It" – Values Lesson & Reflection – <u>Choose one:</u> Option A. Advanced Version <i>or</i> Option B. Basic Version	Pg. #	Pg. #

Key Concepts Mindsets are those implicit beliefs we all hold about our most basic abilities and intelligence. People with a fixed mindset believe their ability and intelligence are largely fixed and outside of their control, whereas people with a growth mindset believe that their intelligence and ability can be developed through their own efforts. Having a growth mindset helps people be motivated to push themselves to reach their true potential.

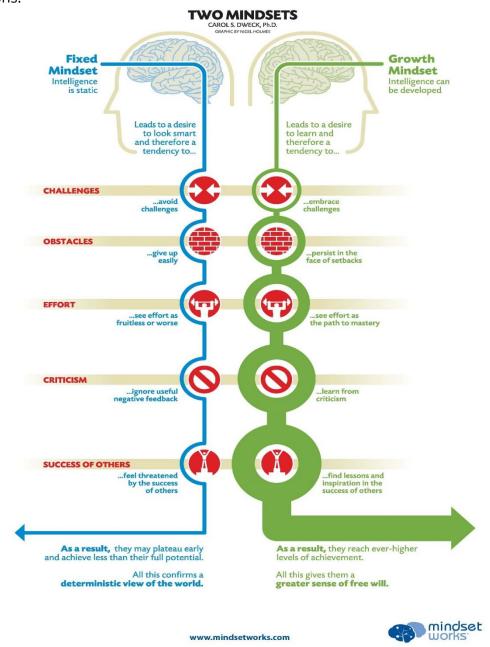
Suggested Teacher Reading

Dweck, Carol (2010). Mindsets and Equitable Education. *Principal Leadership*, pp. 26-29. http://www.principals.org/Content.aspx?topic=61219



The Growth Mindset

Discovered by Professor Carol S. Dweck of Stanford in decades of research on motivation, achievement, and success, **Mindsets** are beliefs individuals hold about their most basic qualities and abilities. In a **Growth Mindset**, people believe they can develop their intelligence, abilities, and talents. This view creates a love for learning, a drive for growth, and a resilience that is essential for great accomplishments. On the contrary, people with a **Fixed Mindset** believe that basic qualities such as intelligence and abilities are fixed, and can't be developed. They also believe that talent alone creates success, and see effort as a sign of weakness rather than as an effective strategy needed to reach one's full potential. The following diagram shows how people with different views of intelligence respond in different situations.





Brainology®: Developing a Growth Mindset

Brainology is designed to help students to develop a Growth Mindset and, as a result, to reach a higher level of academic achievement. Students with a growth mindset think of their intelligence as something that they can develop through learning and study rather than as something fixed. Cultivating a growth mindset can help increase students' sense of self-efficacy and motivation to learn.

Brainology is based on decades of research by leading experts in the area of motivation. Psychologists Carol S. Dweck, Ph.D. and Lisa Blackwell, Ph.D. discovered that developing a Growth Mindset helps students to value learning, invest effort, and improve their academic performance. (See Blackwell, Trzesniewski, & Dweck, 2007.) They developed the Brainology program to help students cultivate a Growth Mindset by teaching them the powerful combination of basic brain science and study skills.

Brainology helps students develop a growth mindset by teaching them how the brain functions, learns, and remembers, and how it changes physically when we exercise it through study and learning. In addition, the program teaches a practical set of skills for tackling academic challenges by discovering how to apply what they have learned about the brain to their schoolwork.

The Brainology program has been implemented in hundreds of schools with great results. When students realize that they control their learning, they are motivated to apply effort and take an active role in learning. Teachers note positive changes in students' behavior (becoming engaged in class, reflecting, asking questions, doing homework), as well as in the higher student achievement that results from more motivated students with higher expectations of themselves.

Brainology is designed as a blended learning curriculum combining a challenge-based, interactive multimedia online program and classroom activities. In the online program, consisting of an introduction plus four 30-minute units, students follow animated teenaged characters Chris and Dahlia as they tackle various problems in their most difficult subjects. They visit the lab of eccentric brain scientist Dr. Cerebrus and learn about the basic structure and function of the brain: how thinking occurs, how learning and memory work, how to develop and change the brain, and how to improve their study habits and skills in light of this knowledge. They gain experience in visualizing and applying these ideas through interactive activities and exercises. Throughout the program they reflect on their challenges and their learning through an e-Journal. The classroom activities contained in this guide provide opportunities to reinforce, apply, and practice what students learn in the online component in the context of their own experience. The goal is for them to understand that they have great, untapped potential and that the development of their mental ability is largely within their own control, and to provide them with study habits and skills that will help them take action.

Through this Curriculum Guide for Teachers we hope to help you support your students by providing information and strategies that you can use to reinforce their growth mindset development.





Introductory Unit: Lesson Plans and Handouts

Building Students' Confidence, Fulfillment, and Achievement Through the Understanding of Expandable Intelligence





Introductory Unit Activity 3, "Practice It": You Can Grow Your Intelligence

Description: An introductory article about brain science with a follow up activity

Objective: Students will learn about the concept of expandable intelligence.

Timeline: Approximately 30 min

Instructions: There are 2 versions of the article: Option A (Plain Text Version) and Option B (Interactive *Text Version*). Choose the one most appropriate for your learners.

Instructions for Option A (Plain Text Version):

- 1. To activate student's prior knowledge, ask them to generate research questions about intelligence. Record the research questions on chart paper. (Some examples are below.)
 - What is intelligence?
 - Do all humans have equal intelligence? How do we know?
 - What are the most "intelligent" animals on Earth?
 - What are the best ways to measure intelligence? How do we know?
- 2. Ask students if they would like to learn how to grow their intelligence, and explain that the class will be reading research today about how to grow their intelligence.
- 3. Students will draw 6 pictures to help the students' brains add this new information to their longterm memories.
- 4. Pass out copies of the worksheet and discuss non-linguistic representations of concepts (drawings) as a way to process and remember a new idea. You can connect the idea to the saying, "a picture is worth a thousand words"
 - and remind students that the brain has an amazing ability to remember pictures.
- 5. Read the first section as a class and model the drawing and the response to the first one.
- 6. Ask students to read silently the next section and complete the second drawing.
- 7. Have students check for understanding with a partner using these frames:
 - I made a connection to the article when I read... because...
 - The article explores my research question... when it talks about...
 - The article raises a new question for me, which is... because...
- 8. Students finish the article and record one research question from the class list about which they would like to independently research (for homework or in a lab setting).
- 9. Students can report back their findings to the class individually, with partners, or in small groups. Use this opportunity to differentiate for all levels of learners.

Differentiating Instruction: Option A Content & Process

This lesson contains content intended for On-Level and Advanced Learners. The text is chunked by use of the graphic organizer. Much of the lesson requires the student to read the text independently, but discuss ideas as a class. There are scaffolding suggestions as well as extension opportunities.



Introductory Unit Activity 3, "Practice It": You Can Grow Your Intelligence, cont.



- 1. To activate student's prior knowledge, ask them to generate research questions about intelligence. Record the research questions on chart paper. (Some examples are below.)
 - What is intelligence?
 - Do all humans have equal intelligence? How do we know?
 - What is animal intelligence measured as compared to human intelligence?
 - What are the most "intelligent" animals on Earth?
 - What are the best ways to measure intelligence? How do we know?
 - What are some people more intelligent than others?
- 2. Ask students if they would like to learn how to grow their intelligence, and explain that the class will be learning today how to grow their intelligence.
- 3. Pass out the copies of the Interactive Text and read as a class as the students complete the prompts and thought bubbles.
- 4. Have students record one research question from the class list that they would like to search for information about as independent practice (for homework or in a lab setting).
- 5. Students can report back their findings to the class individually, with partners, or in small groups. Use this opportunity to differentiate for all levels of learners.

Differentiating Instruction: Option B

Content & Process

This lesson contains content intended for Below-Level Learners. The text is chunked throughout the article with built-in processing boxes and language response frames. The process is best delivered in a whole class setting with some read-alouds by the teacher, some by student volunteers, and some independent reading.

The additional research component can be modeled by the teacher using a projector or smart phone and a simple Internet search. Show the students how people do information searches on one of the class research questions.

Brainology® Intro Unit Activity 3 "Practice It" Option A Handout

You Can Grow Your Intelligence

New Research Shows the Brain Can Be Developed Like a Muscle

Many people think of the brain as a mystery. They don't know much about intelligence and how it works. When they do think about what intelligence is, many people believe that a person is born either smart, average, or dumb—and stays that way for life.

But new research shows that the brain is more like a muscle—it changes and gets stronger when you use it. And scientists have been able to show just how the brain grows and gets stronger when you learn

Everyone knows that when you lift weights, your muscles get bigger and you get stronger. A person who can't lift 20 pounds when they start exercising can get strong enough to lift 100 pounds after working out for a long time. That's because the muscles become larger and stronger with exercise. And when you stop exercising, the muscles shrink

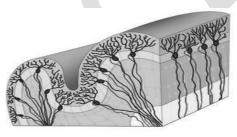


and you get weaker. That's why people say "Use it or lose it!"

But most people don't know that when they practice and learn new things, parts of their brain change and

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get larger a lot like muscles do when they exercise.

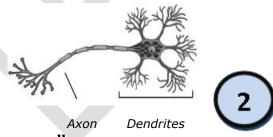




© FOTOSEARCH

A section of the cerebral cortex

Inside the cortex of the brain are billions of tiny nerve cells, called neurons. The nerve cells have branches connecting them to other cells in a complicated network. Communication between these brain cells is what allows us to think and solve problems.



A typical nerve cell

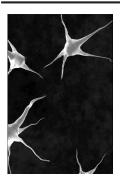
When you learn new things, these tiny connections in the brain actually multiply and get stronger. The more that you challenge your mind to learn, the more your brain cells grow. Then, things that you once found very hard or even impossible to do—like speaking a foreign language or doing algebra—seem to become easy. The result is a stronger, smarter brain.

How Do We Know the Brain Can Grow Stronger?

Scientists started thinking that the human brain could develop and change when they studied animals' brains. They found out that animals who lived in a challenging environment, with other animals and toys to play with, were different from animals who lived alone in bare cages.

While the animals who lived alone just ate and slept all the time, the ones who lived with different toys and other animals were always active. They spent a lot of time figuring out how to use the toys and how to get along with the other animals.

HEALTH & SCIENCE: News You Can Use Page 1 of 3



Nerves in brain of animal living in bare cage



Brain of animal living with other animals and toys

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Effect of an Enriched Environment

These animals had more connections between the nerve cells in their brains. The connections were bigger and stronger, too. In fact, their whole brains were about 10% heavier than the brains of the animals who lived alone without toys.

The animals who were exercising their brains by playing with toys and each other were also "smarter"—they were better at solving problems and learning new things.

Even old animals got smarter and developed more connections in their brains when they got the chance to play with new toys and other animals. When scientists put very old animals in the cage with younger animals and new toys to explore, their brains also grew by about 10%!

Children's Brain Growth

Another thing that got scientists thinking about the brain growing and changing was babies. Everyone knows that babies are born without being able to talk or understand language. But somehow, almost all babies learn to speak their parents' language in the first few years of life. How do they do this?

The Key to Growing the Brain: Practice!

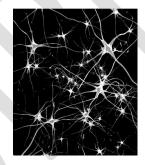
From the first day they are born, babies are hearing people around them talk—all day, every day, to the baby and to each other. They have to try to make sense of these strange sounds and figure out what they mean. In a way, babies are exercising their brains by listening hard.

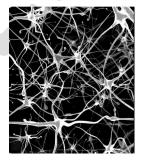
Later, when they need to tell their parents what they want, they start practicing talking themselves. At first, they just make goo-goo sounds. Then, words start coming. And by the time they are three years old, most can say whole sentences almost perfectly.

Once children learn a language, they don't forget it. The child's brain has changed—it has actually gotten smarter.

This can happen because learning causes permanent changes in the brain. The babies' brain cells get larger and grow new connections between them. These new, stronger connections make the child's brain stronger and smarter, just like a weightlifter's big muscles make them strong.

Growth of neuron connections in a child from birth to 6 years old





At birth At age 6

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The Real Truth About "Smart" and "Dumb"

No one thinks babies are stupid because they can't talk. They just haven't learned how to yet. But some people will call a person dumb if they can't solve math problems, or spell a word right, or read fast even though all these things are learned with practice.

At first, no one can read or solve equations. But with practice, they can learn to do it. And the more a person learns, the easier it gets to learn new things because their brain "muscles" have gotten stronger!

HEALTH & SCIENCE: News You Can Use Page 2 of 3



The students everyone thinks as the "smartest" may not have been born any different from anyone else. But before they started school, they may have started to practice reading. They had already started to build up their "reading muscles." Then, in the classroom, everyone said, "That's the smartest student in the class."

They don't realize that any of the other students could learn to do as well if they exercised and practiced reading as much. Remember, all of those other students learned to speak at least one whole language already—something that grownups find very hard to do. They just need to build up their "reading muscles" too.

What Can You Do to Get Smarter?

Just like a weightlifter or a basketball player, to be a brain athlete, you have to exercise and practice. By practicing, you make your brain stronger. You also learn skills that let you use your brain in a smarter way—just like a basketball player learns new moves.

But many people miss out on the chance to grow a stronger brain because they think they can't do it, or that it's too hard. It does take work, just like becoming stronger physically or becoming a better ball player does. Sometimes it even hurts! But when you feel yourself get better and stronger, all the work is worth it!

E-mail questions or comments to: support@mindsetworks.com

HEALTH & SCIENCE: News You Can Use

Page 3 of 3



Brainology® Intro Unit Activity 3, "Practice It": Plain Text Version - Option A Handout

"You Can Grow Your Intelligence"

<u>Directions:</u> 1) Read each numbered section. 2) Draw a picture that represents the main ideas in that part of the article. 3) Fill in the sentence frames to explain how your picture represents the idea.

	This picture of a represents the m
<u> </u>	idea because
	Manistran and the boards of the life of the state of the
2)	My picture represents the branches (dendrites) growing between brain cells because
3	My picture represents the difference between animals who had toys and stimulation and those animals that did not because
	·



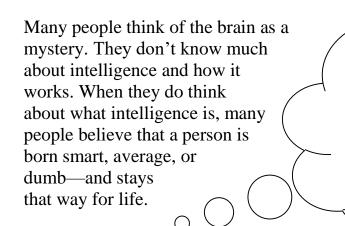
	because
	·
	Everyone has a brain that can be exercised, and what I drew
)	shows
	Summary: Things that I learned from this article are
	Sammary. Things that Flearnea morn this article are
	and are represented by my picture because
	and the represented by my piecare because



Brainology® Intro Unit Activity 3, "Practice It": Interactive Text Version - Option B

You <u>Can</u> Grow Your Intelligence

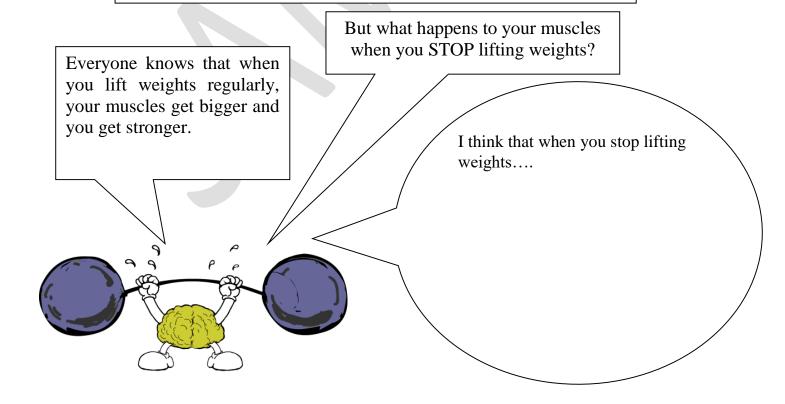
New Research Shows the Brain Can Be Developed Like a Muscle



What do YOU think??

GUESS WHAT?

New research shows that the brain is more like a muscle—it *changes* and *gets stronger* when you use it!





That's why people say, "Use it or lose it!"

Most people don't know that when they practice and learn new things, part of their brain changes, grows, and gets stronger and larger, a lot like muscles do when they exercise.

Scientists have actually been able to **show** just how the brain grows and gets stronger when you learn.

So here is an analogy:	Muscle is to exercise as the brain is to
In other words Mu	uscles will grow with exercise and the brain will grow with

Here's the secret:

Inside the cortex of the brain are billions of tiny nerve cells called neurons. The nerve cells have branches connecting them to each other in a complicated network. Communication between these brain cells is what allows us to think and solve problems.

When you learn new things, these tiny connections in the brain actually multiply and get stronger.

The more that you challenge your mind to learn, the more neuron connections you make in your brain.

If you continue to strengthen these connections, things that you once found very hard to do like remembering information for a test or doing algebra—seem to become easy. The result is a stronger, smarter brain.

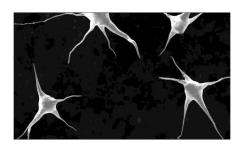
Use the information you have just read to complete the organizer below

IF	-	THEN

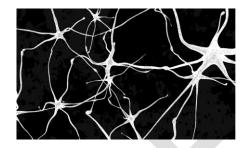


The Secret.... continued

Scientists started thinking that the human brain could develop and change when they studied animals' brains. They found out that animals who lived in a challenging environment, with other animals and toys to play with, were different from animals who lived alone in bare cages.



Brain of animal living in bare cage (non-stimulating environment)



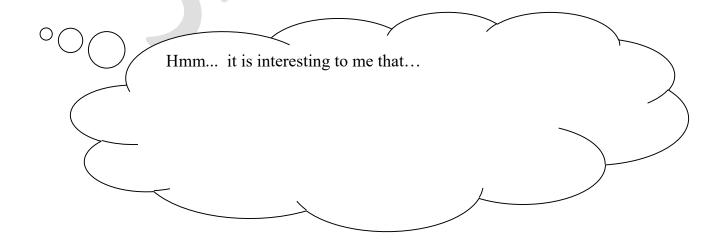
Brain of animal living with other animals and toys (stimulating environment)

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While the animals that lived alone just ate and slept all the time, the ones that lived with different toys and other animals spent a lot more time figuring out how to use the toys and how to get along with other animals.

The animals who lived in the stimulating environment had more connections between nerve cells in their brains. The connections were bigger and stronger, too. In fact, their whole brains were about 10% heavier than the brains of the animals who lived alone without toys. The animals who were exercising their brains by playing with toys and each other were also "smarter"—they were better at solving problems and learning new things.

Even old animals got smarter and developed more connections in their brains when they got a chance to play with new toys and other animals. When scientists put very old animals in cages with younger animals and new toys to explore, their brains grew by about 10%.



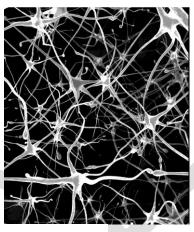


Children's Brain Growth

Another thing that got scientists thinking about the brain growing and changing was babies. Everyone knows that babies are born without being able to talk or understand language. But somehow, almost all babies learn to speak their parents' language in the first few years of life. How do they do this?

Neuron connections in a child from birth to 6 years old





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Do you think this child developed strong language skills by the age of six? Why or why not?

How do you think this child grew all of those neuron connections and pathways?

The Real Truth about "Smart" and "Dumb"

No one thinks babies are stupid because they can't talk. They just haven't learned how to yet. But some people will call a person dumb if they can't solve math problems, or spell a word right, or read fast—even though all these things are learned with practice. At first, no one can read or solve equations. But with practice, they can learn to do it. And the more a person learns, the easier it gets to learn new things—because their brain "muscles" have gotten stronger!

What Can **YOU** Do to Get Smarter?

Just like a weightlifter or a basketball player, you have to exercise and practice to make your brain grow stronger. By practicing, you also learn skills that let you use your brain in a smarter way—just like a basketball player learns new moves.



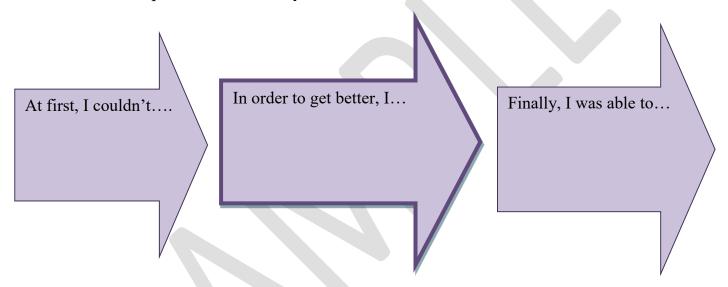
Why doesn't EVERYBODY do this?

Many people miss out on the chance to grow a stronger brain because

- they think they can't do it
- they think it's too hard
- they think it's too much work

Can you relate?

Reflection: Remember a time when you worked extremely hard on something that was at first difficult, but after practice and effort you were able to succeed.



How did you feel when you were successful?	Was it worth the effort? Explain.



Notes:

About Mindset Works

Mindset Works was co-founded by one of the world's leading researchers in the field of motivation, Stanford University professor Carol S. Dweck, Ph.D. and K-12 mindset expert Lisa S. Blackwell, Ph.D. The company translates psychological research into practical products and services to help students and educators increase their motivation and achievement.

Our award-winning interactive program provides students, parents and educators with a better approach to learning.

Brainology® is a fun, interactive, award-winning, online program that helps middle school students learn about how the brain works, how to strengthen their own brains and how to better approach their own learning. In the process, the Brainology® program helps them cultivate a growth mindset whereby they think



of their intelligence as something they can develop through study and learning rather than as something fixed. The core belief in the malleability of the mind triggers motivation and learning-oriented behavior in various aspects of life.



Visit www.mindsetworks.com for more growth mindset resources, tools, articles, and videos. Contact us at info@mindsetworks.com.



www.mindsetworks.com

Mindset Works, Inc. 340 S Lemon Ave # 6463 Walnut, CA 91789