

Ocean Leader Bridge Program



Day 1

Pathway of an Ocean Leader

SCIENCE LEADER DEFINITION

Science Leaders:

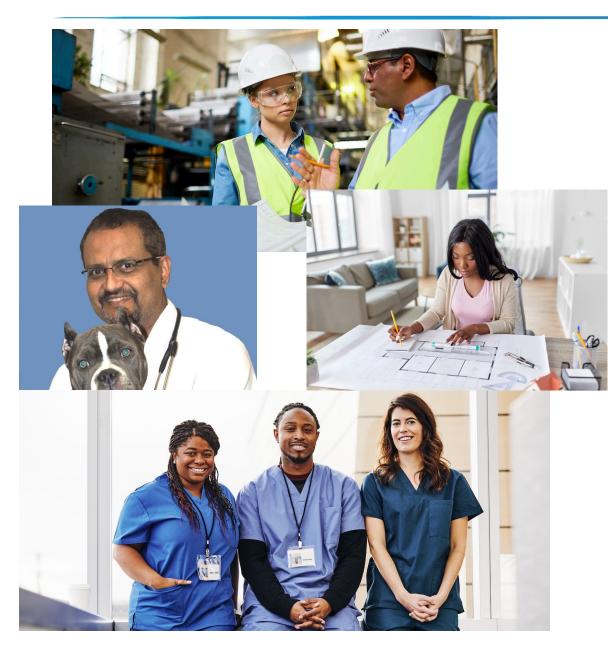
- Are people of any age who use science to make a difference.
- Develop ideas to help solve problems facing our planet, improve human lives, and make our world a better place.
- Study science or have careers in science and science-related fields.

SCIENCE AND SCIENCE-RELATED CAREERS

- Biologist
- Physicist
- Chemist
- Environmental scientist
- Computer programmer
- Software engineer
- Psychologist
- Economist
- Sociologist



SCIENCE AND SCIENCE-RELATED CAREERS



- Doctor
- Nurse
- Physical therapist
- Teacher in science
- Engineer
- Pharmacist
- Architect
- Veterinarian
- And many, many, more!

DAY 1 - OCEAN DISCOVERY LEADESHIP CHALLENGE



SCOVERY INSTITUTE ransformed through science

DAY 1 – OCEAN DISCOVERY LEADESHIP CHALLENGE





DAY 1 – OCEAN DISCOVERY LEADERSHIP CHALLENGE

Expectations:

- We will be given a clue card that will lead us to a place located in the canyon.
- Once we have found the place, there will be a card describing a challenge we need to complete.
- When we have completed the challenge, we can use another clue card from our supply backpack to find our next challenge location.
- If we complete all the challenges, we will each receive a prize!
- We will split into 3 different groups. Each group will have an instructor/mentor.

WHAT IS A MENTOR?

BRAINSTORM

MENTORS

What is a Mentor?

Amazing people who volunteer their time because they BELIEVE in you and your ability to become a future science leader!

Mentors can be older Ocean Leaders, Ocean Discovery staff, or scientists who offer advice, share their experiences, and help you understand things that are confusing to you.



HOW TO UTILIZE MENTORS

How do I utilize Mentors?? Easy! Ask questions!

Scientist Mentors:

- How did you get to where you are today?
- What do you like about your job?
- What was a challenge you faced on your pathway to becoming a science leader?

Alumni Mentors:

- What is your favorite part about being an Ocean Leader?
- Which program was your favorite? Why?
- What is Intro to Research like?



OL BRIDGE MENTORS

Ask them when you don't understand the material!

Ask them questions during Office Hours.

Remember they are only here for three days so take advantage of the time!



MENTOR-MENTEE RELATIONSHIPS

Boundaries:

- You should feel comfortable around any mentor.
- Mentor-mentee relationships should not cross sexual or romantic boundaries.
- Mentors should not touch you in any way that makes you feel uncomfortable.
- Report any issues you have to an adult



EQUITY AND INCLUSION

- Mentors and mentees come in all shapes and sizes.
- Seek out opportunities to interact with others from different backgrounds – that is how you learn new things.
- Treat everyone—regardless of race, sex, or status—with respect, consideration, and politeness.



LIVING LAB SCAVENGER HUNT

Expectations:

- We will break into teams.
- Each team will be given a Living Lab Scavenger Hunt Card and a sharpie.
- Complete as many tasks as possible in whatever order you choose.
- Everything you need to complete your tasks can be found inside of the Living Lab.
- Make sure you are walking from place to place.
- When you finish all your tasks return here.

GROWTH MINDSET DEFINITION

Growth Mindset means you believe your intelligence, abilities, and skills can be developed over time through dedication and hard work.

GROWTH MINDSET

Science research tells us that people with a growth mindset:

- learn more things better and faster
- take on more challenge and persist through more challenges
- see failures as an opportunity to learn and try something new

GROWTH MINDSET ARTICLE

Read: Growth Mindset Article.

Pair-Share:

- What was something you found interesting in the article?
- Do you think a growth mindset would be an asset in life? Why or why not?
- Do you think you have a fixed or growth mindset?
 Why?

FIXED VS. GROWTH MINDSET

GROWTH MINDSET

Is Freedom

Persevere in the face of failures

Effort is required to build new skills

Find inspiration in others success

Embrace challenges

Accept criticism

Desire to learn

Build abilities

FIXED MINDSET

Is Limiting

Avoid challenges Give up easily

Threatened by others success

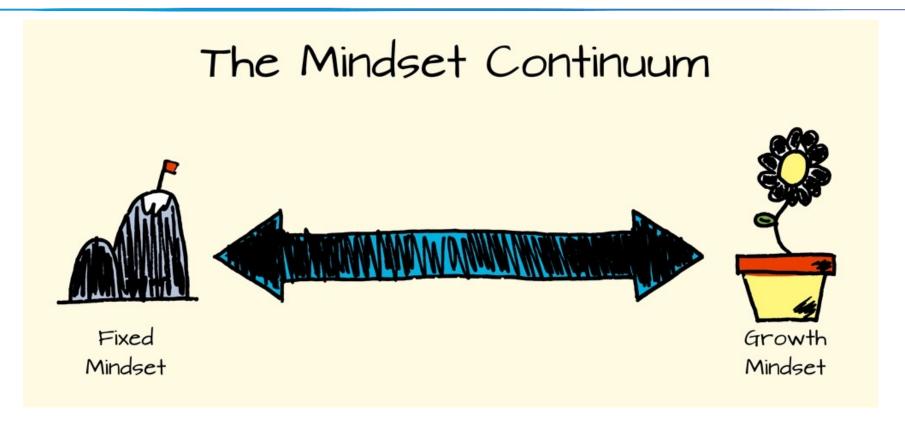
Desire to look smart

Effort is fruitless

Ignore feedback

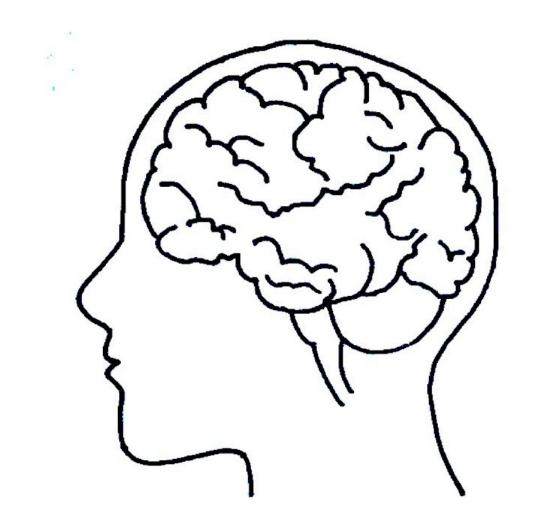
Fixed abilities

GROWTH MINDSET CONTINUUM



Where you think you fall on the growth mindset continuum when it comes to learning science?

Scientists have proven that your brain can change - it can grow over time!



People with a growth mindset believe they can create more neural pathways and learn more by challenging themselves and working hard when things are difficult.

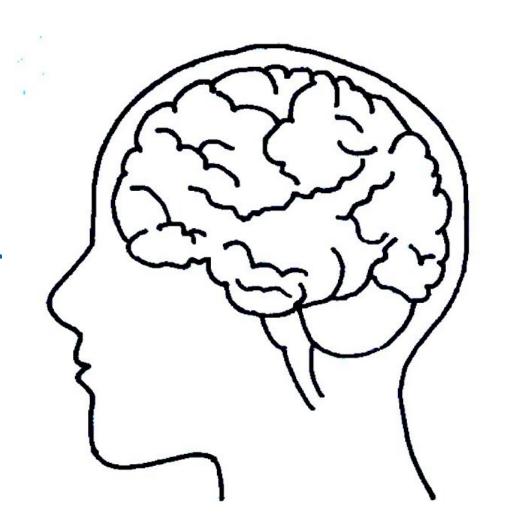
And they are right!



Anyone can develop a growth mindset even if you've had a fixed one in the past.



Having a growth mindset applies to all aspects of our lives, not just school.



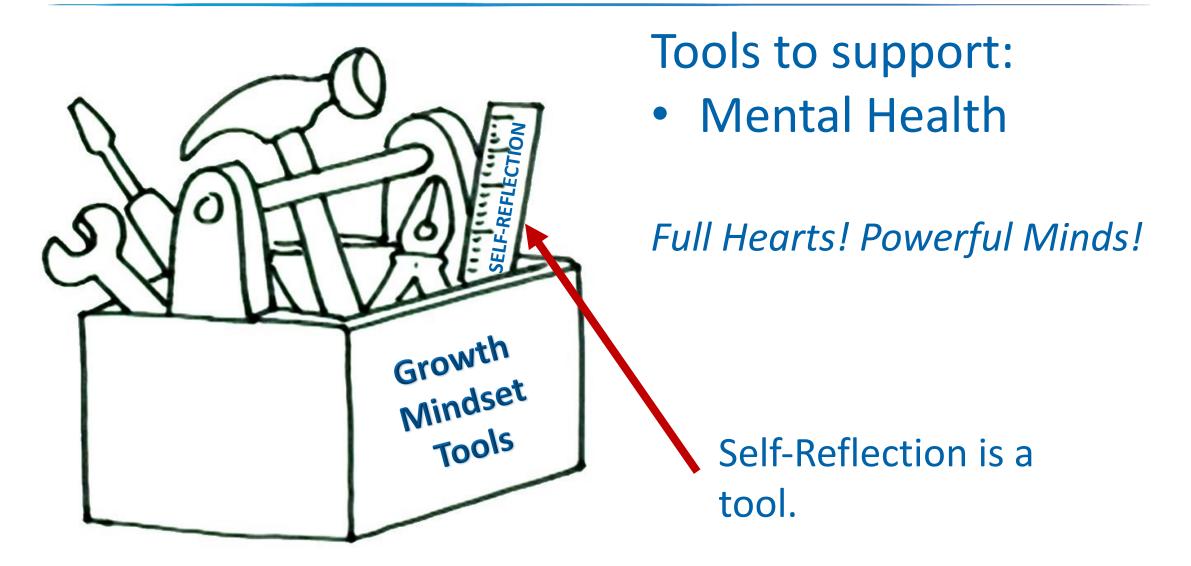
GROWTH MINDSET TOOLS

We will teach you tools to support:

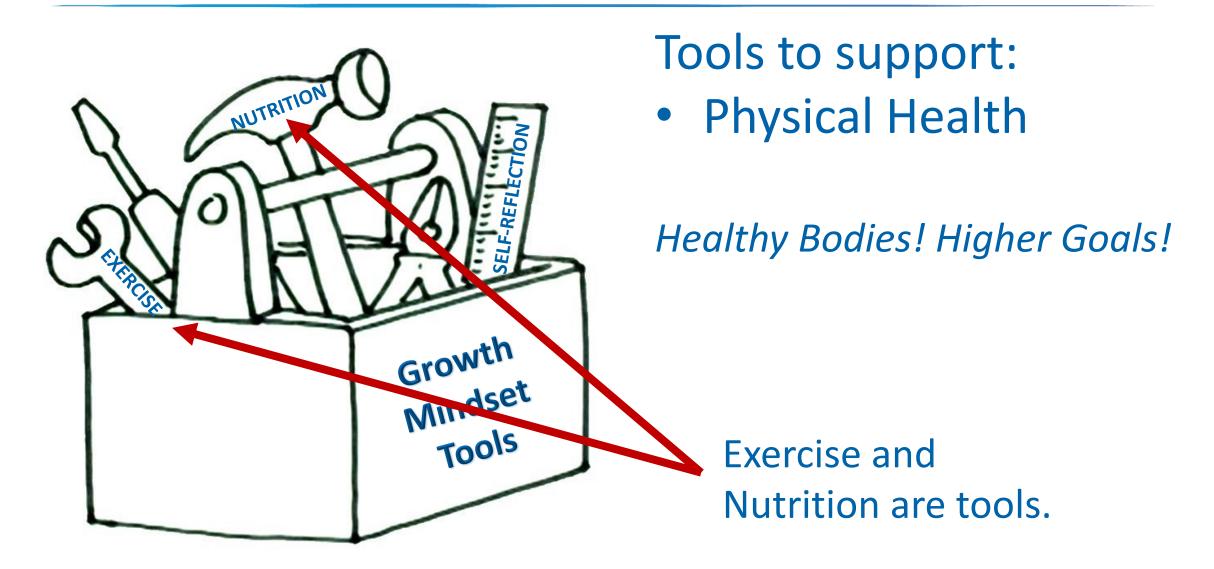
- Learning (Know it! Own it!)
- Mental Health (Full Hearts! Powerful Minds!)
- Physical Health (Healthy Bodies! Higher Goals!)



SELF REFLCTION



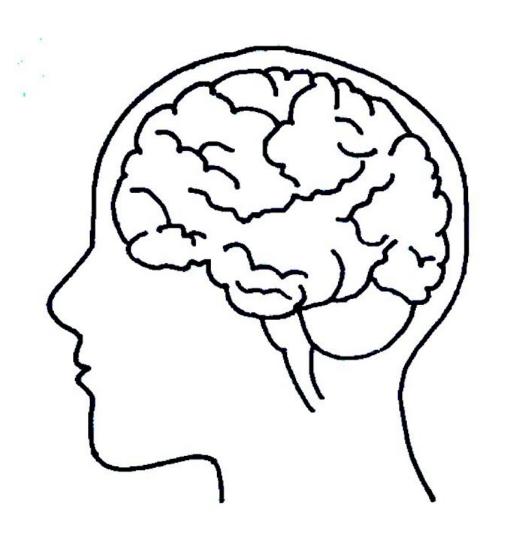
HEALTHY BODIES



HEALTHY BODIES

Science tells us having a healthy body:

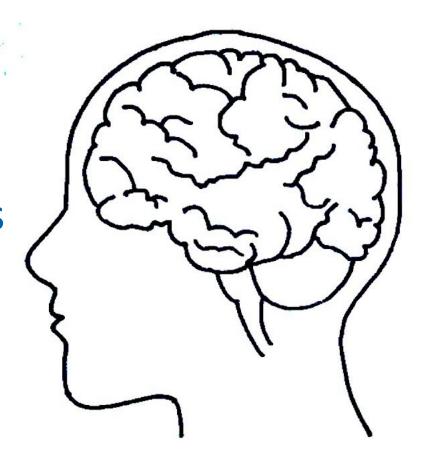
- Can prevent disease
- Save money on health care
- Lead to a longer life
- Helps the environment
- Can lead to better mental health



EXERCISE

Exercise can help:

- Strengthen muscles
- Create a positive body image
- Trigger the growth of brain cells
- Maintain a healthy weight
- Slow the aging process
- Create a sense of accomplishment



NUTRITION

People with healthy eating patterns:

- Reduce the risk of serious health problems
- Think more clearly
- Improve their ability to fight off sickness
- Increase their energy levels
- Improve their ability to recover from an injury



REMINDERS

- Don't forget to bring your backpack and wear your polo!
- Tomorrow for the field you must have the following:
 - Backpack
 - Hats
 - Sleeves
 - Water bottle
 - Sunglasses
 - Closed-toed shoes

SERVANT LEADERSHIP

- Mentors to meet with IPM for debrief.
- Return science notebook and any materials used to personal bins.
- Chores:
 - Return tables and chairs to original positions.
 - Wipe down tables and chairs.
 - Place chairs on top of table.
 - Take cups to dishwasher and load dishwasher.
 - Sweep floor.
 - Help pack up & carry supplies to storage (accompanied by adult).
- Pick up any remaining trash/paper on the floor and throw away/recycle.



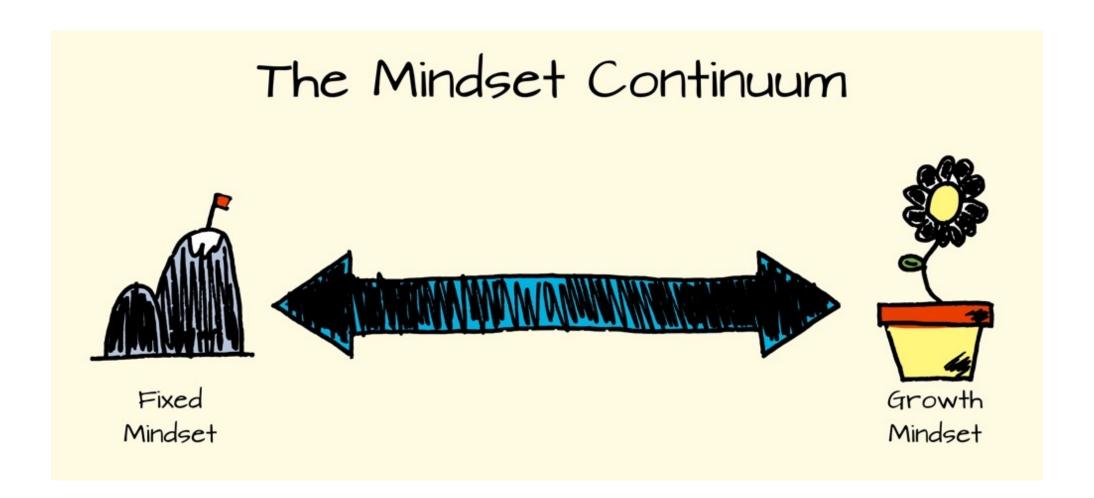
Day 2
Team Building

GROWTH MINDSET DEFINITION

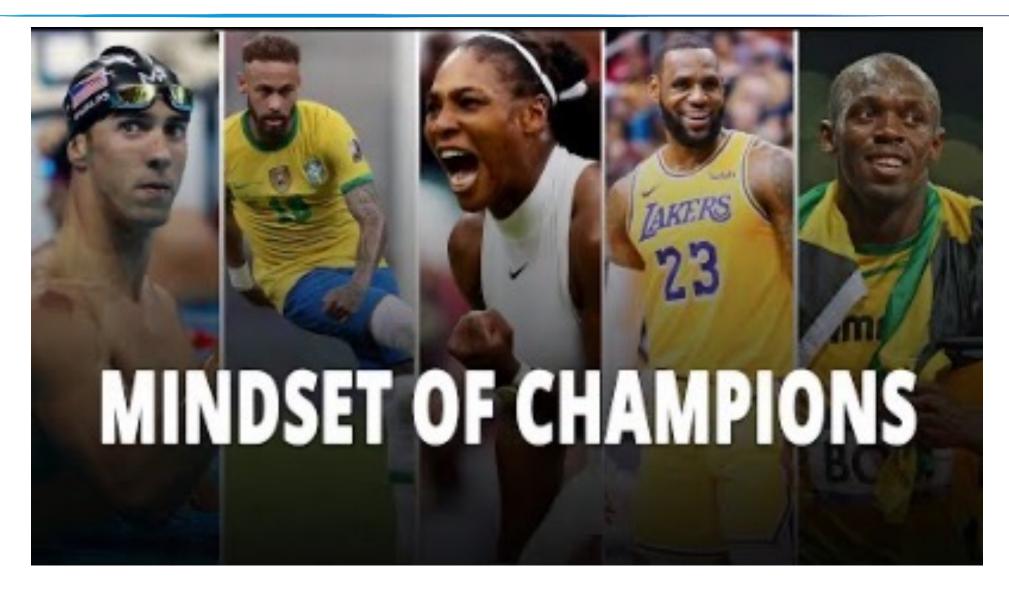


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GROWTH MINDSET CONTINUUM



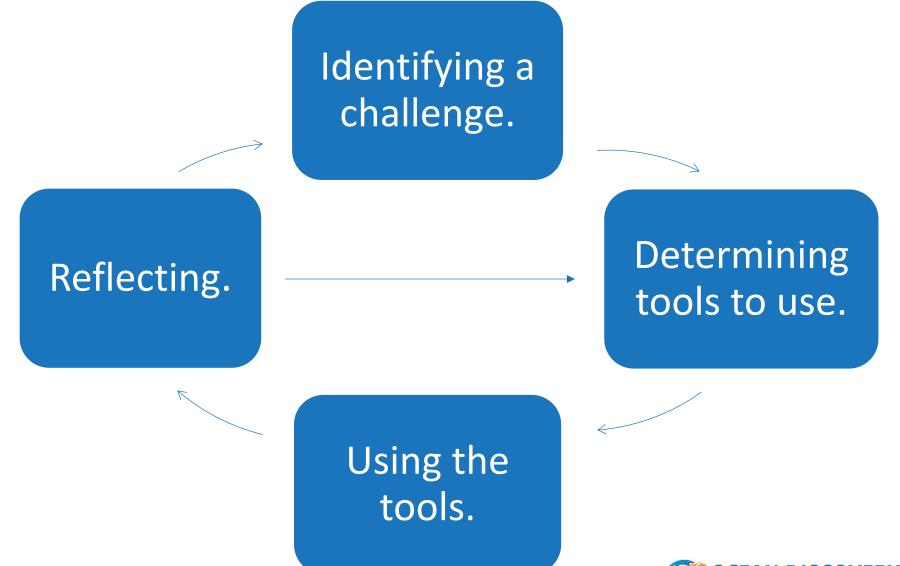
MINDSET OF CHAMPIONS



DEBRIEF

What do these athletes believe is important about being successful?

GROWTH MINDSET PRACTICE



MINDSET STATEMENTS

- 1. I'm not good at science.
- 2. I don't have good ideas.
- 3. I've been bad at soccer my whole life.
- 4. I'm not smart enough to do that.
- 5. I'm going to fail that test.
- 6. I'm not very strong.
- 7. I'm a terrible cook.

REMINDERS

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SERVANT LEADERSHIP

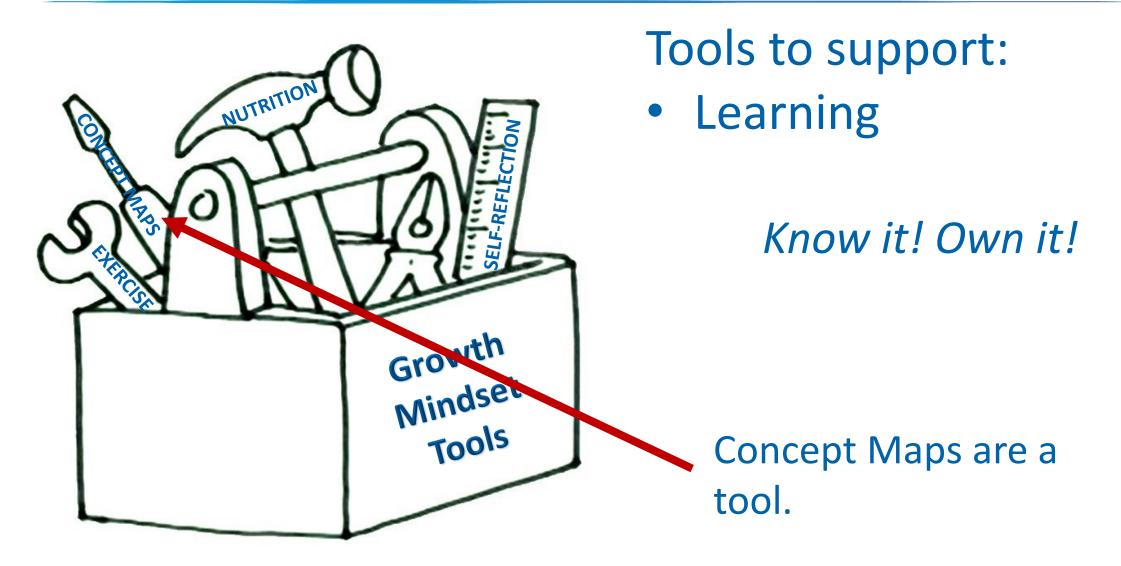
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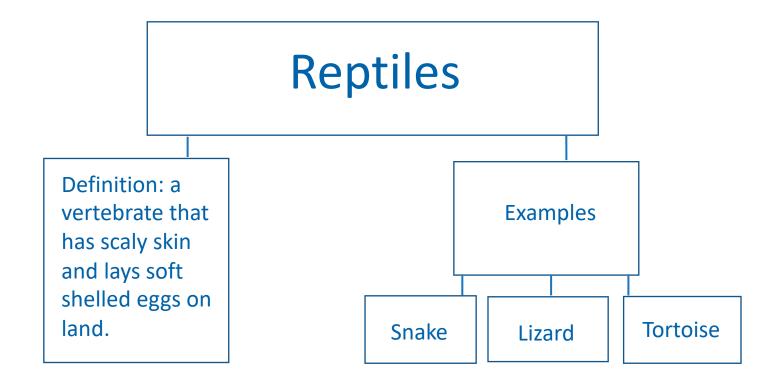
Day 3

Explore & Wonder - Invertebrates

PROCESS REFLECTION



CONCEPT MAPS



Concept maps help us identify relationships between ideas and link them together.

SCIENCE OF CONCEPT MAPS

Science tells us that understanding these relationships and making a visual representation of those connections helps us understand things at a much deep level and make it easier to remember later.



CONCEPT MAPS AND YOU

Concept maps should make sense to you!

- There isn't a right or wrong way to create concept map.
- Everyone's will look a little different.
- Lines between bubbles means ideas are connected.

CONCEPT MAP MODEL

REMINDERS

Don't forget to bring your backpack and wear your polo!

SERVANT LEADERSHIP

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Day 4

Investigate - Invertebrates

ROCKY SEASHORE VIDEO

The Mindset Continuum Fixed Growth Mindset Mindset The further you are to one end of the spectrum, the more (or less) you embrace learning new things.

REVIEW INVESTIGATION





2. Build Your Own **Invertebrate From Clay**

4. See if your Invertebrate Can Survive a "Wave"!

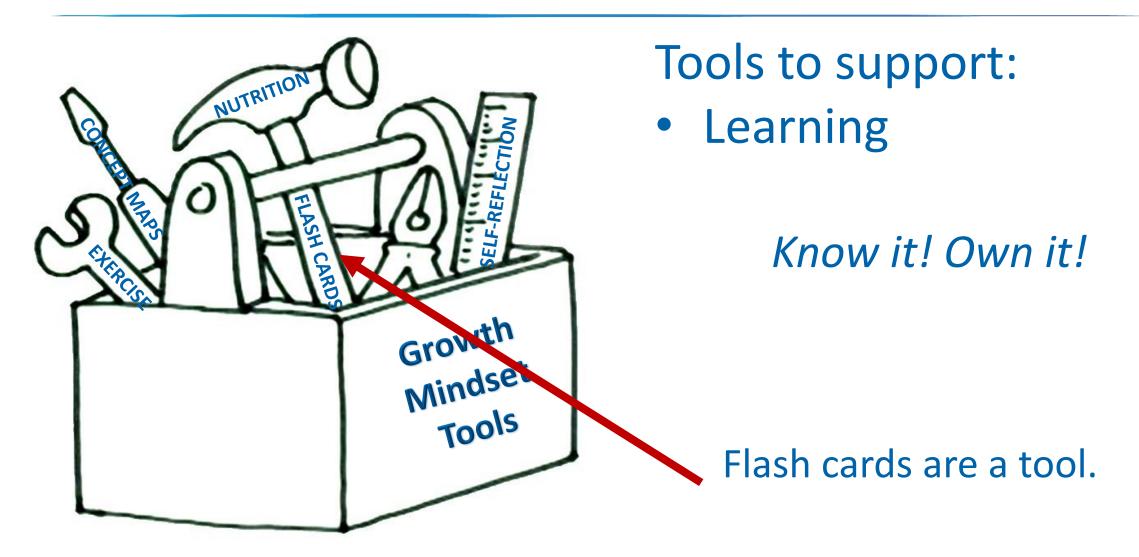
3. Place Your Clay Invertebrate on the Plexiglass

SCIENCE NOTEBOOK

Investigate – Invertebrates page record:

- Low profile: Less surface area to be hit and knocked over by a wave.
 - Examples: chiton, limpet, etc.
- Large sticking area: large surface area to stick to rocks
 - Examples: giant keyhole limpet (large muscular foot), starfish (hundreds of tube feet), etc.
- Round body shape: water flows around the body of the animal rather than catching on corners and pushing it off of a rock.
 - Examples: chiton, anemone, etc.

KNOW IT! OWN IT!



FLASH CARDS

Memorization:

- One of the most basic ways to make knowledge your own is to memorize it.
- Memorizing knowledge allows us to recall it and apply it to future learning.

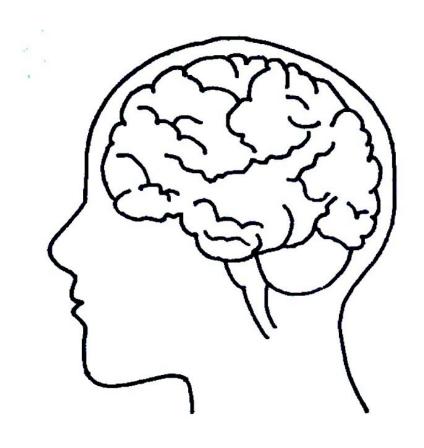
Flashcards are a way to memorize knowledge.

SCIENCE OF FLASH CARDS

Science tells us flash cards are used to encourage active recall.

Using flash cards creates stronger neural connections in the brain.

Science has shown using flash cards to be an extremely effective way to improve memory.



FLASH CARD EXAMPLES

FLASH CARDS

EXAMPLES

Definition -

What is the definition of Biology?

The study of living things

Short answer -

Who was the first person to walk on the moon?

Neil Armstrong

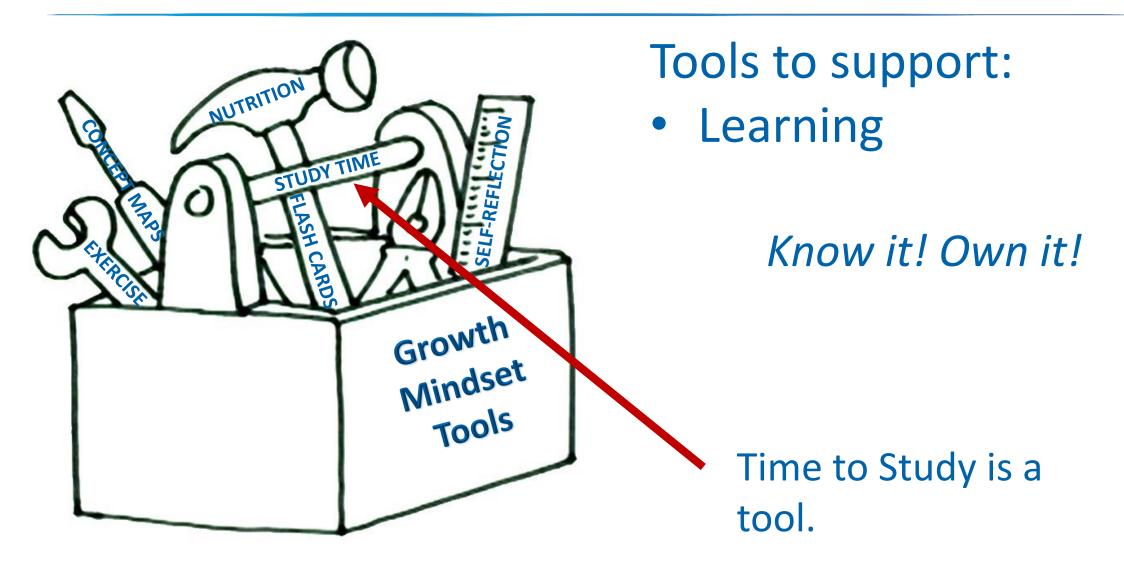
Examples

What are three examples of mammals?

Fox Whale Human

EXAMPLE FLASH CARD

KNOW IT! OWN IT!

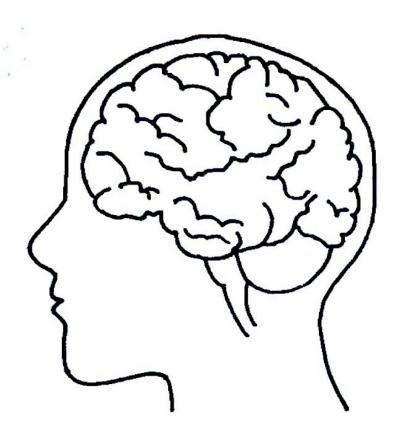


SCIENCE OF STUDY TIME

Short study sessions are better than long study sessions.

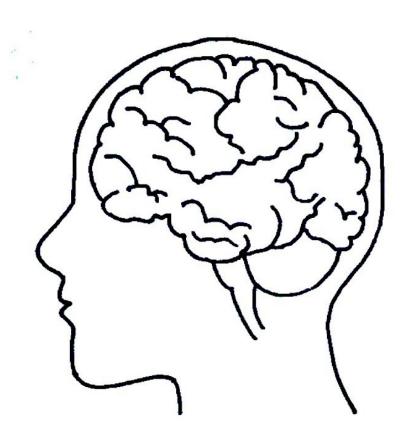
Several study sessions before a test are better than cramming a day or two before.

Several short study sessions over a period of several days will increase your ability to retain the knowledge (remember it).



SCIENCE OF STUDY TIME

- Stay focused don't multi-task
 - No phones or off topic conversations.
- Utilize strong study skills such as flash cards.

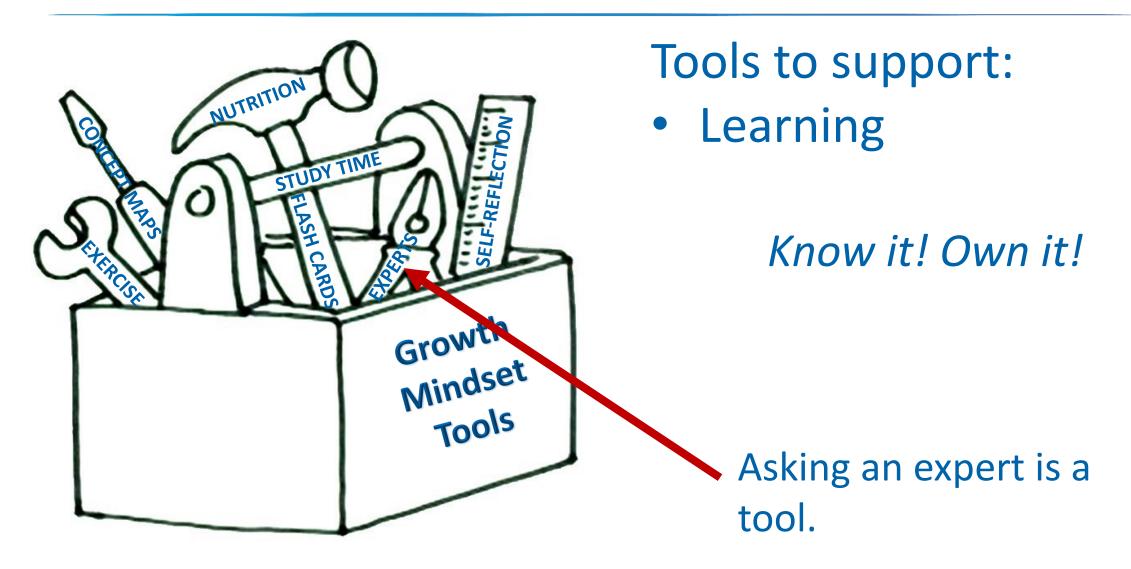


HOW TO STUDY WITH FLASH CARDS



- You are trying to memorize what is on your flash cards.
- Read them to yourself.
 - If you can answer the question put it in one pile and if you can't put it in another.
 - Spend more time rereading the questions from the pile you don't know.
 - Every now and then mix up the order of your flash cards.

ASK AN EXPERT



ASK AN EXPERT OVERVIEW



When we look at new knowledge from lectures or concept maps sometimes, we realize there is something we didn't understand.

That's when it's time to "Ask an Expert"!

WHO ARE EXPERTS?



- People who have knowledge about the field you have a question about.
- High school teachers, college professors, mentors, friends, etc.

WHEN TO ASK AN EXPERT



Bridge Program:

- Not being able to answer some flash card questions.
- Struggling to create flash cards.
- Having a question about something.

School:

- Low score on test or quiz.
- Struggling to apply knowledge when doing homework.
- That general "feeling" that you don't understand or feeling "lost" during a lecture.

voung lives transformed through science

HOW TO ASK AN EXPERT



Question Sentence Starters

- I want to know more about...
- I'm confused about...
- I wonder...

CONCEPT MAP

REMINDERS

- Don't forget to bring your backpack and wear your polo!
- Tomorrow for the field you must have the following:
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Day 5

Make a Difference - Invertebrates

PROCESS REFLECTION

Concept Map Questions:

- Should I start another concept map or am I still learning about invertebrates?
- What was the focus of today?
- What feels important to remember?
- How are those ideas linked?

SELF-REFLECTION

Card sentence starters:

- One memory I have of our time together is....
- Something I enjoyed experiencing with you was...
- You taught me...
- You really helped me by....
- Thank you for....

THANK YOU SPEECH

Г	<u></u>
	Thank you These last few days we have had fun: <i>list 2-3 things you have done w/ your mentor</i> .
	You have helped us learn about: list 1-2 things you have learned with your mentor.
	Thank you for (believing in us/helping us achieve/helping us become better leaders, etc.).
	We appreciate you being part of (group name).

REMINDERS

- Tomorrow is laundry day!
 - Bring your polos for washing.
 - Dress code is casual but must be appropriate to being an Ocean Leader.
- New mentors arrive tomorrow let make them feel welcome!
- Tomorrow is a field day you must have the following:
 - Backpack
 - Hats
 - Sleeves
 - Water bottle
 - Sunglasses
 - Closed-toed shoes

SERVANT LEADERSHIP

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Day 6

Explore and Wonder - Fish

PROCESS REFLECTION

Concept Map Questions:

- What was the focus of today?
- What feels important to remember?
- How are those ideas linked?
- Are there any specific examples I want to include?

CONCEPT MAP

REMINDERS

• None! ©

SERVANT LEADERSHIP

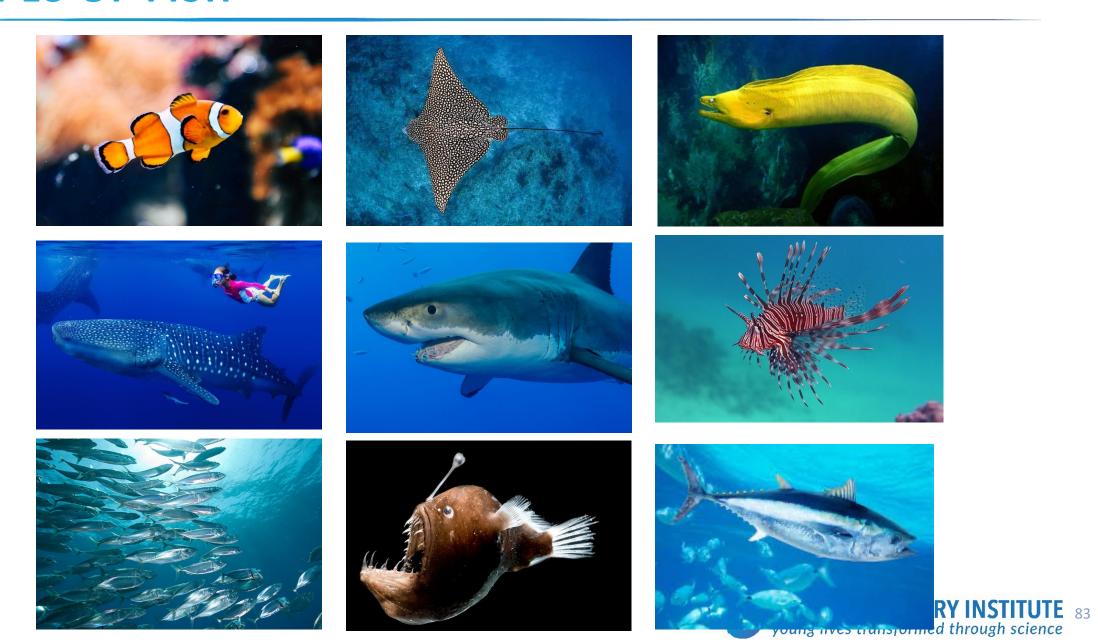
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Day 7

Investigate - Fish

TYPES OF FISH



BONY VS. CARTILAGINOUS

Cartilaginous (Skeleton of cartilage)





Bony (Skeleton of bones)



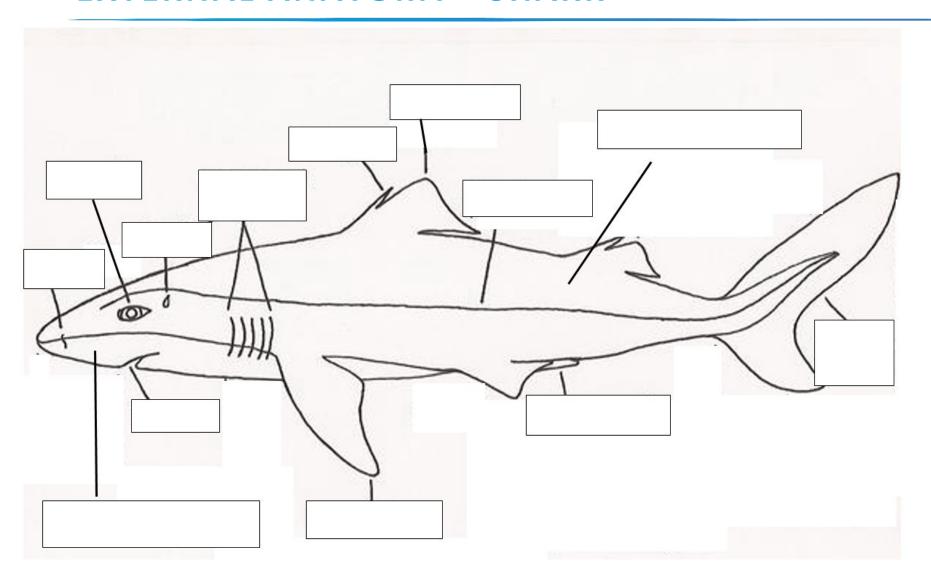


EXTERNAL ANATOMY - SHARK





EXTERNAL ANATOMY - SHARK



Word Bank:

Eye

Gill slits

Dorsal fin

Dermal denticles

Lateral Line

Nostril

Claspers

Pectoral fin

Mouth

Ampullae of Lorenzini

Spiracle

Tail fin

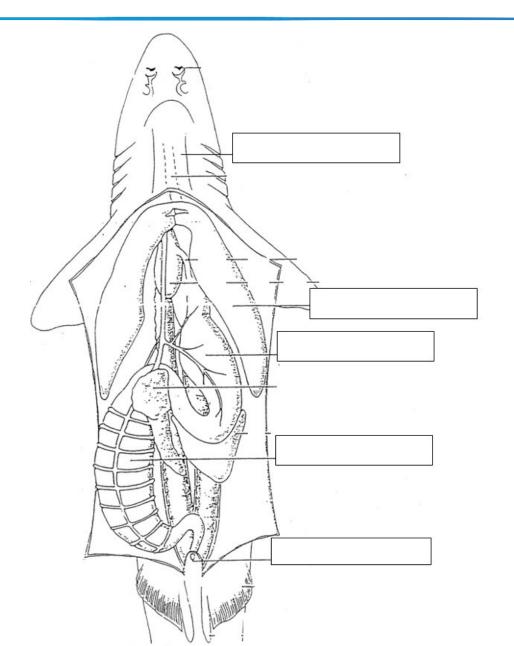
Fin spine

INTERNAL ANATOMY - SHARK





INTERNAL ANATOMY - SHARK



Word Bank:

Intestines

Liver

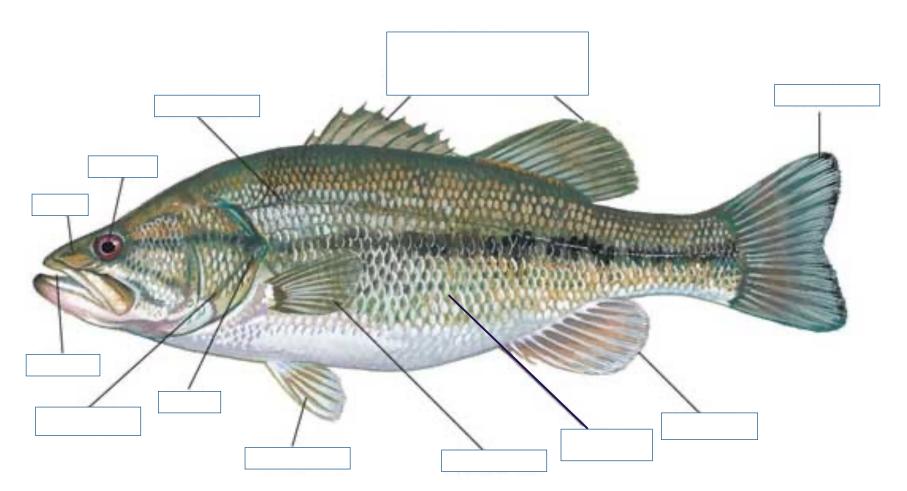
Cloaca

Heart

Stomach



EXTERNAL ANATOMY – BONY FISH



Word Bank:

Eye

Gills

Dorsal fins

Scales

Pelvic Fin

Lateral Line

Nostril

Tail Fin

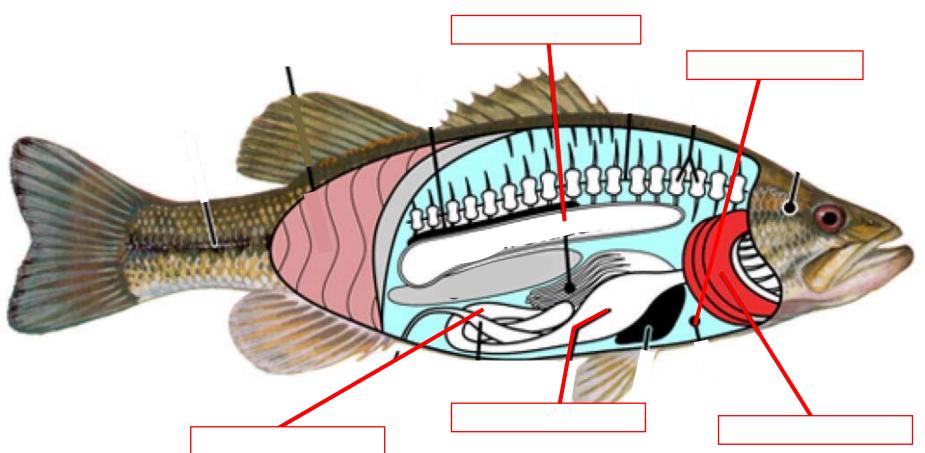
Pectoral fin

Mouth

Operculum

Anal Fin

INTERNAL ANATOMY - FISH



Word Bank: Intestines Swim bladder Gills Heart Stomach

BONY VS. CARTILAGINOUS FISH

Investigate – Fish

Science notebook

What are the differences between cartilaginous and bony fish?

FLASH CARDS



Tools to support:

Learning

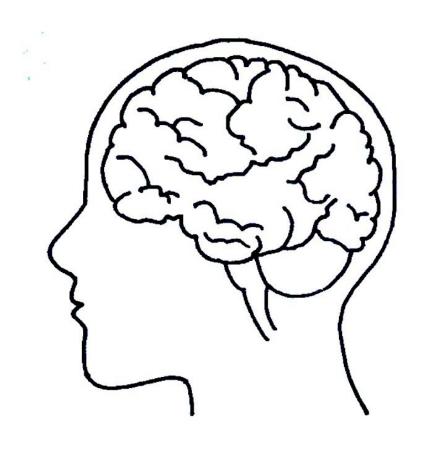
Know it! Own it!

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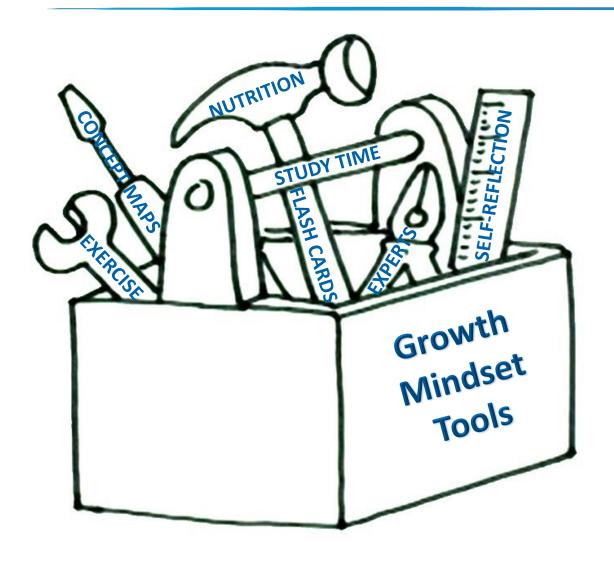
Neil Armstrong

Examples

What are three examples of mammals?

Fox Whale Human

STUDY TIME



Tools to support:

Learning

Know it! Own it!

SCIENCE OF STUDY TIME

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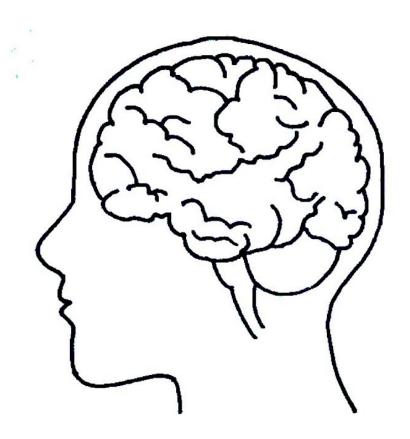
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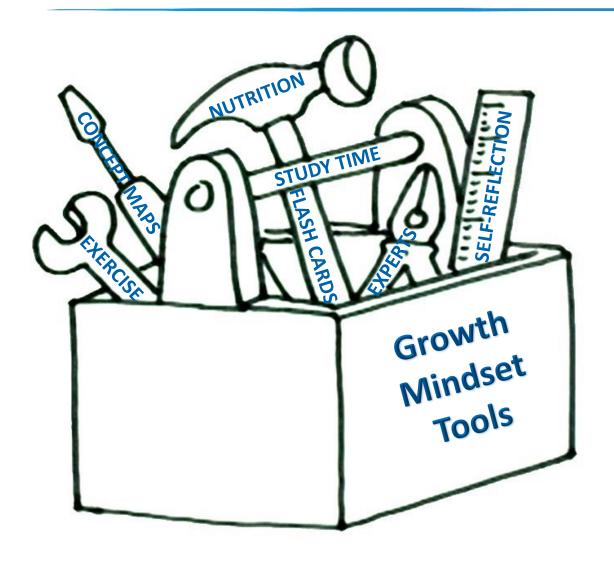


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ASK AN EXPERT



Tools to support:

Learning

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WHEN TO ASK AN EXPERT



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HOW TO ASK AN EXPERT



Question Sentence Starters

- I want to know more about...
- I'm confused about...
- I wonder...

PROCESS REFLECTION

Concept Map Questions:

- What I the main topic? Can I expand on an existing concept map or should I start a new one?
- What feels important to remember?
- How are those ideas linked?
- Are there any specific examples I want to include?

CONCEPT MAP



MENTOR THANK YOUS

Optional sentence starters:

- One memory I have of our time together is....
- Something I enjoyed experiencing with you was...
- You taught me...
- You really helped me by....
- Thank you for....

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	You have helped us learn about: list 1-2 things you have learned with your mentor.
	Thank you for (believing in us/helping us achieve/helping us become better leaders, etc.).
	We appreciate you being part of (group name).

REMINDERS

- New Mentors arrive tomorrow let's make them feel welcome!
 - Give them a handshake and introduce yourself.
- Overnight tomorrow:
 - Review packing list
 - Do NOT bring:
 - Tent
 - Sleeping bag
 - Sleeping pad
 - Food
- Tomorrow for the field you must have the following:
 - Backpack
 - Hats
 - Sleeves
 - Water bottle
 - Sunglasses
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SERVANT LEADERSHIP

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Day 8

Make a Difference - Fish

PROCESS REFLECTION

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CONCEPT MAP



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Day 9

Explore & Wonder – Marine Mammals

PROCESS REFLECTION

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CONCEPT MAP



REMINDERS

• None ©



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- Chores:
 - Return tables and chairs to original positions.
 - Wipe down tables and chairs.
 - Place chairs on top of table.
 - Take cups to dishwasher and load dishwasher.
 - Sweep floor.
 - Help pack up & carry supplies to storage (accompanied by adult).
- Pick up any remaining trash/paper on the floor and throw away/recycle.





Day 10

Investigate – Marine Mammals

DEFINITION OF MARINE MAMMAL

Marine Mammal – a mammal that lives most or all of its life in or near the ocean.

Characteristics of Mammals:

- warm blooded
- breathe air through lungs
- have hair (at some point during their life)
- babies are born alive
- they produce milk to feed their young

DRONE TYPES









EXPECTATIONS

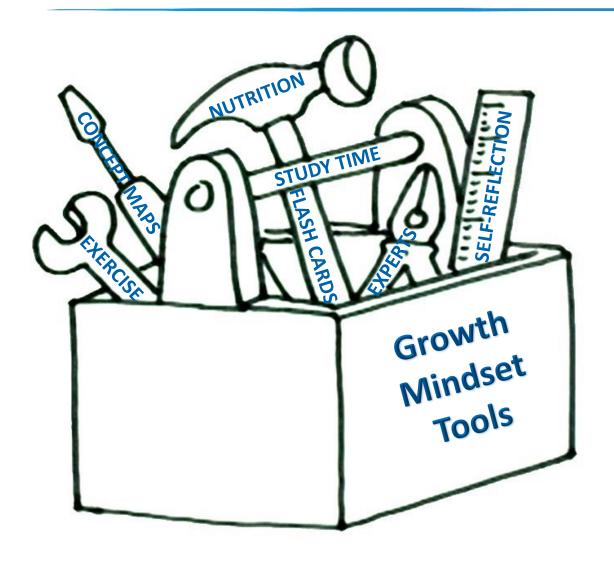
- Everyone will get a chance to fly and land a drone.
- Your goal when flying to lift off from one of the blue "X" on the ground and then fly over and land on the other blue "X".
- Be respectful when your turn is over.
- Land the drone gently before handing the controls off to another person.
- Have a growth mindset!



MARINE MAMMAL SIZE ESTIMATE

 $\frac{Length\ of\ known\ stick\ on\ paper\ in\ inches}{True\ Length\ of\ stick\ in\ inches} = \frac{Length\ of\ "whale"\ in\ inches}{True\ length\ of\ "whale"\ (x)}$

FLASH CARDS



Tools to support:

Learning

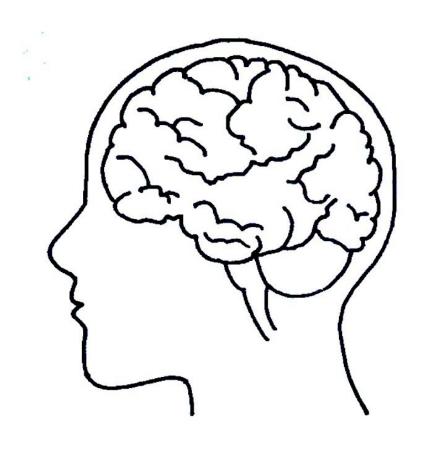
Know it! Own it!

SCIENCE OF FLASH CARDS

Science tells us flash cards are used to encourage active recall.

Using flash cards creates stronger neural connections in the brain.

Science has shown using flash cards to be an extremely effective way to improve memory.





FLASH CARD EXAMPLES

FLASH CARDS

EXAMPLES

• Definition —

What is the definition of Biology?

The study of living things

• Short answer-

Who was the first person to walk on the moon?

Neil Armstrong

Examples

What are three examples of mammals?

Fox Whale Human



FLASHCARDS



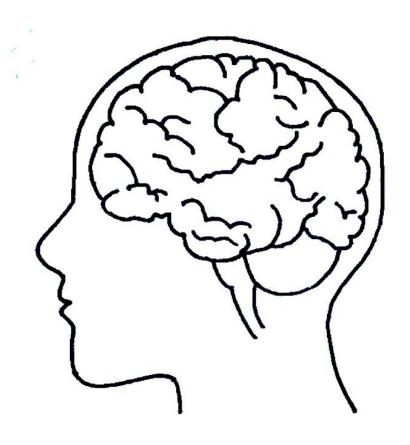
FINAL EXAM

- Our final exam is two days from now.
- The final will include both short answer and multiplechoice questions.
- You will be tested on all three subjects that we have studied: invertebrates, fish, and marine mammals.



SCIENCE OF STUDY TIME

- Several short study sessions over a period of several days will increase your ability to remember the knowledge.
- Stay focused don't multi-task
 - No phones or off topic conversations.
- Utilize strong study skills such as flash cards.



PAIR STUDY TIME/ASK AN EXPERT

Options:

- Continue to study flash cards independently.
- Study flash cards with a partner.
- Ask an Expert questions.

PROCESS REFLECTION

Concept Map Questions:

- What I the main topic? Can I expand on an existing concept map or should I start a new one?
- What feels important to remember?
- How are those ideas linked?
- Are there any specific examples I want to include?

CONCEPT MAP



REMINDERS

- Tomorrow is laundry day!
 - Bring your polos for washing.
 - Dress code is casual but must be appropriate to being an Ocean Leader.
- Family Celebration is two days away!
 - Friday, June 30th
 - Invite friends and family to attend.
- Tomorrow is a field day you must have the following:
 - Backpack
 - Hats
 - Sleeves
 - Water bottle
 - Sunglasses
 - Closed-toed shoes



SERVANT LEADERSHIP

- Mentors to meet with IPM for debrief.
- Return science notebook and any materials used to personal bins.
- Chores:
 - Return tables and chairs to original positions.
 - Wipe down tables and chairs.
 - Place chairs on top of table.
 - Take cups to dishwasher and load dishwasher.
 - Sweep floor.
 - Help pack up & carry supplies to storage (accompanied by adult).
- Pick up any remaining trash/paper on the floor and throw away/recycle.





Day 11

Make a Difference – Marine Mammals

PROCESS REFLECTION

Concept Map Questions:

- What I the main topic? Can I expand on an existing concept map or should I start a new one?
- What feels important to remember?
- How are those ideas linked?
- Are there any specific examples I want to include?

CONCEPT MAP



COMMUNITY CELEBRATION OVERVIEW

Family celebration is a time to share our experiences from the last two weeks with family and friends.

We will do this in two ways:

- 1. Touring your families through what you have learned these weeks.
 - Invertebrates: Live invertebrates
 - Fish: Jarred fish and sharks + shark for external anatomy.
 - Marine Mammals: Drones
 - Program slide show: show your family all the photos from the last twelve days.
- 2. Presentation:
 - I AM Poem (Everyone)
 - Selected PEN Reflections



TIPS FOR PRESENTING

When presenting:

- Breathe take a deep breath.
- Power Position take up space.
- Speak clearly and slowly keep the microphone close to your mouth.

REMINDERS

- Family Celebration is tomorrow!
 - Friday, June 30th
 - Invite friends and family to attend.

SERVANT LEADERSHIP

- Mentors to meet with IPM for debrief.
- Return science notebook and any materials used to personal bins.
- Chores:
 - Return tables and chairs to original positions.
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Day 12

Final Exam & Family Celebration Prep

BRAINSTORM FLASHCARDS



PAIR STUDY TIME/ASK AN EXPERT

Options:

- Continue to study flash cards independently.
- Study flash cards with a partner.
- Ask an Expert questions.

FINAL EXAM

- Short answer and multiple-choice questions.
- Read questions carefully! Some may want you to choose more than one answer.
- You will have 20 minutes to work.
- If you finish early <u>check your work!</u>



INTRO TO RESEARCH OVERVIEW

Summer Programs:

- 8th Grade: Ocean Leader Bridge Program
- 9th Grade: Ocean Leader Intro to Research Program
- 10th Grade: Ocean Leader Field Research Program
- 11th Grade: Ocean Leader Lab Research Program

Throughout High School:

- Bi-weekly coaching meetings
- Math tutoring

REFLECTION ON LEARNING

Answer these question in your science notebook:

- What is something you are proud of accomplishing during this program?
- What is a study skill that you learned during this program that you want to continue to use this year in high school?

MENTOR THANK YOUS

Optional sentence starters:

- One memory I have of our time together is....
- Something I enjoyed experiencing with you was...
- You taught me...
- You really helped me by....
- Thank you for....

THANK YOU SPEECH

Г	
	Thank you These last few days we have had fun: <i>list 2-3 things you have done w/ your mentor</i> .
	You have helped us learn about: list 1-2 things you have learned with your mentor.
	Thank you for (believing in us/helping us achieve/helping us become better leaders, etc.).
	We appreciate you being part of (group name).

REMINDERS

- Pack up your Science Notebooks and belongings to take home.
- BE BACK AT THE LAB by 5:00PM for Family Celebration in a fresh polo!!



SERVANT LEADERSHIP

- Mentors to meet with IPM for debrief.
- Return science notebook and any materials used to personal bins.
- Chores:
 - Return tables and chairs to original positions.
 - Wipe down tables and chairs.
 - Place chairs on top of table.
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THANK YOU!