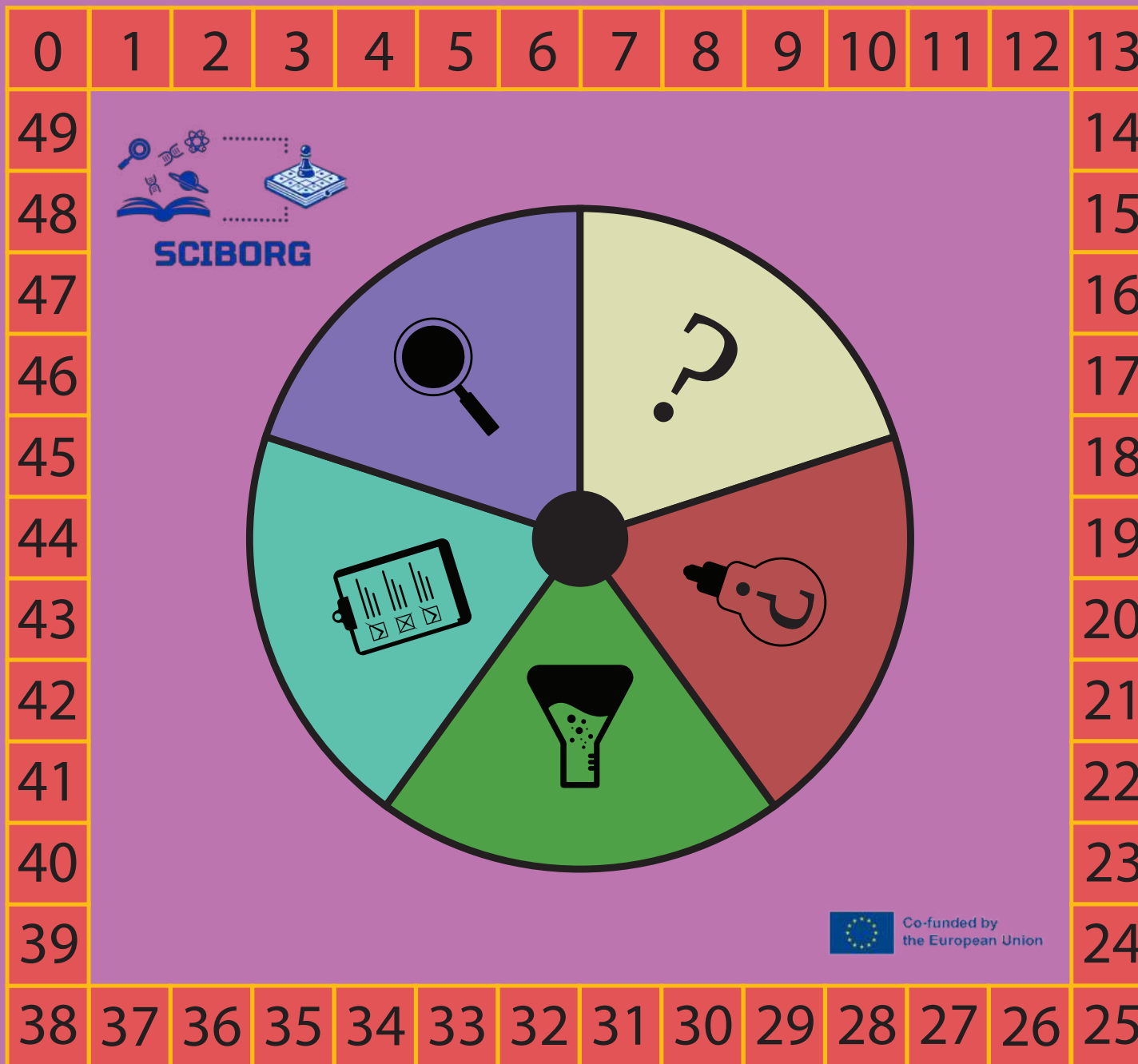


Player Name	Phase	Link-up	Maxi-Link	Doing the Hard Work	Chance	Story	Field Focus	Step Focus	Bonus	Total
	Hypothesis									
	Experiment									
	Conclusion									
	Hypothesis									
	Experiment									
	Conclusion									
	Hypothesis									
	Experiment									
	Conclusion									
	Hypothesis									
	Experiment									
	Conclusion									



Hypothesis



Experiment



Conclusion



Hypothesis



Search databases



Get research funding



Read scientific articles



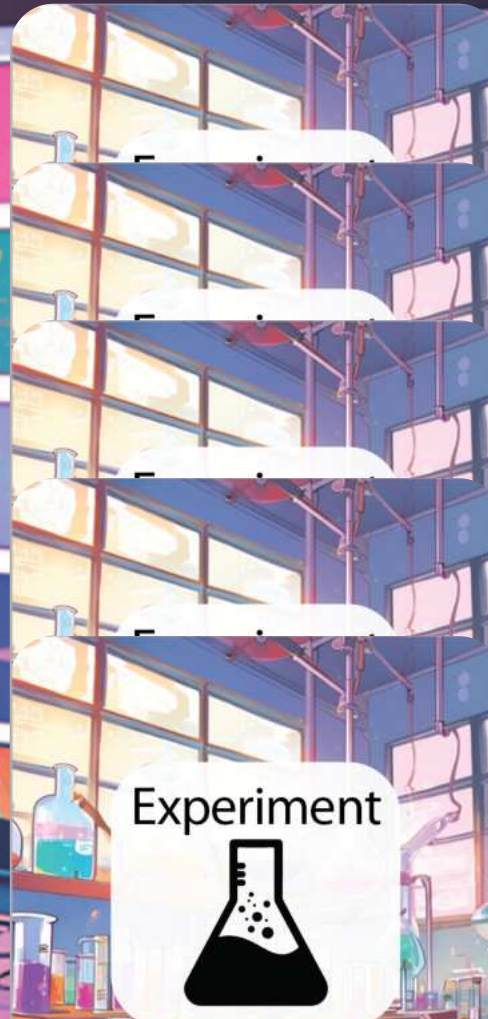
Find collaborators



Talk to other researchers



wild card



Experiment



High number of replicates



Successful data collection



External variables are controlled



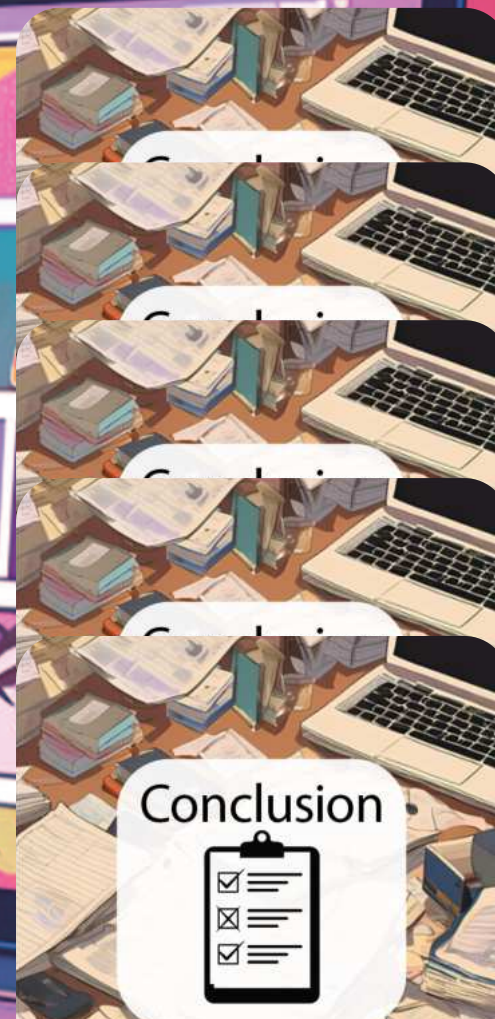
Sufficient data is collected



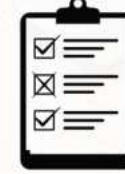
Statistically sound experimental design



wild card



Conclusion



Results make sense in the context of other research



Conference presentation



Data clearly supports or refutes hypothesis



Ignites new ideas for future research



Successful publication



wild card



Hypothesis



Experiment



Conclusion



Search databases Read scientific articles Talk to other researchers



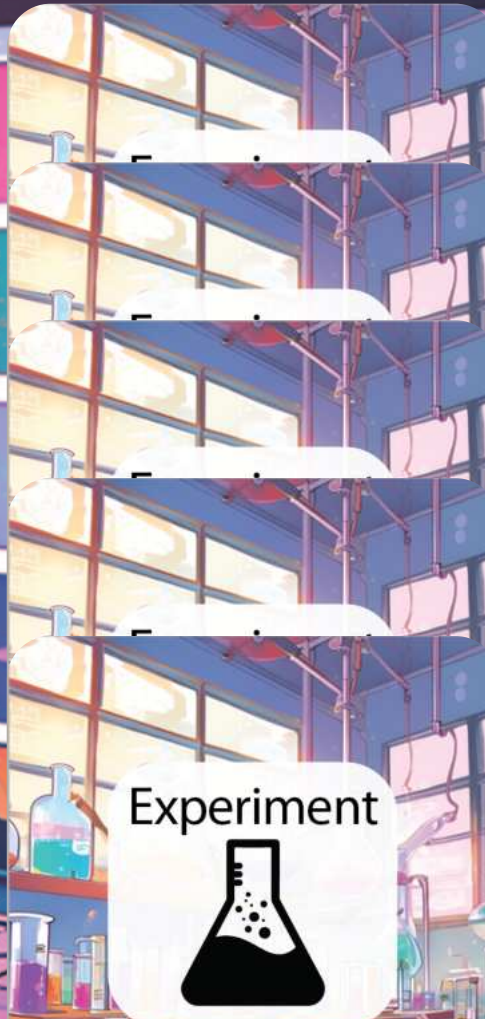
Get research funding



Find collaborators



wild card



High number of replicates External variables are controlled Statistically sound experimental design



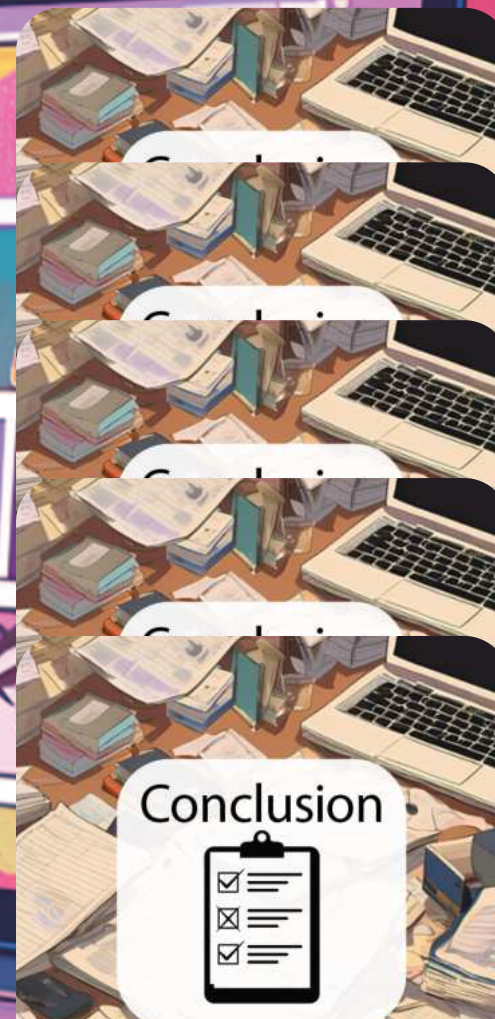
Successful data collection



Sufficient data is collected



wild card



Results make sense in the context of other research Data clearly supports or refutes hypothesis Successful publication



Conference presentation



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wild card



Hypothesis



Experiment



Conclusion



Search databases Read scientific articles Talk to other researchers



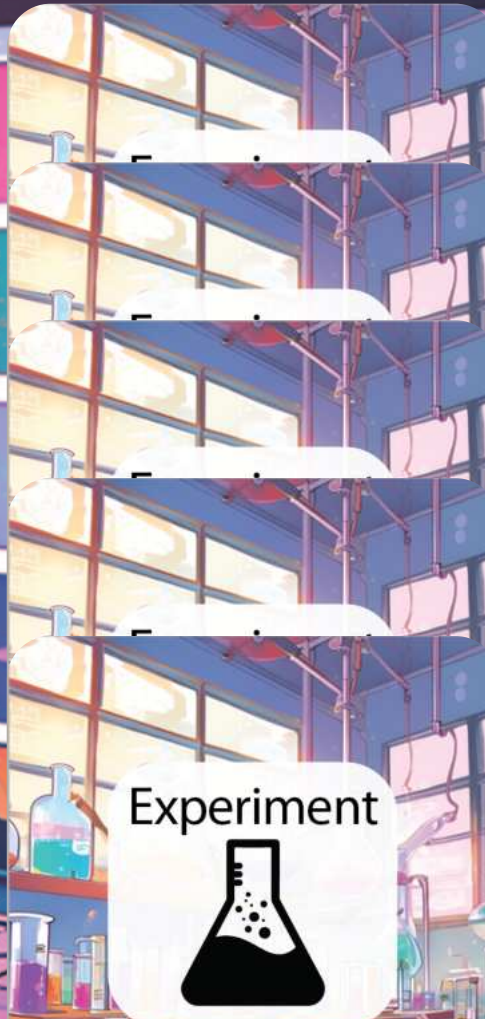
Get research funding



Find collaborators



wild card



High number of replicates



Successful data collection



External variables are controlled



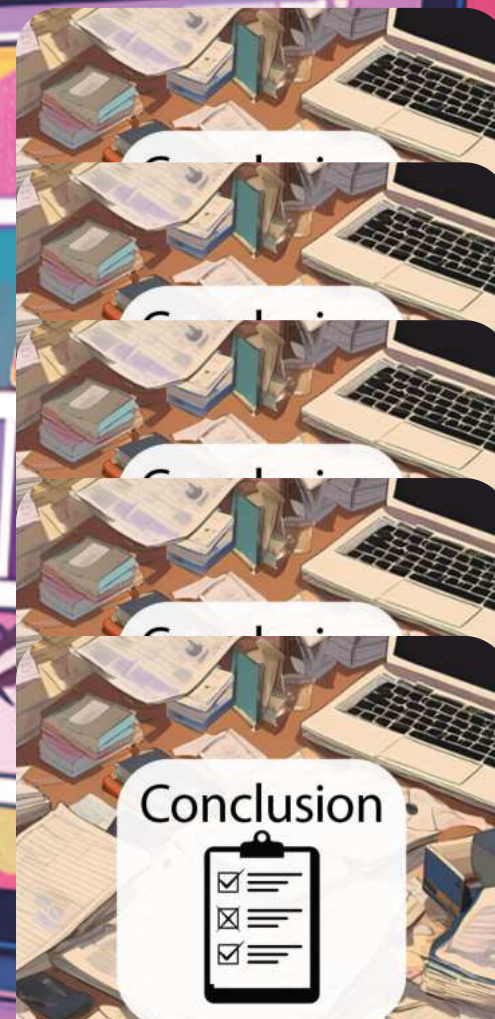
Sufficient data is collected



Statistically sound experimental design



wild card



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Search databases Read scientific articles Talk to other researchers



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Find collaborators



wild card



High number of replicates



Successful data collection



External variables are controlled



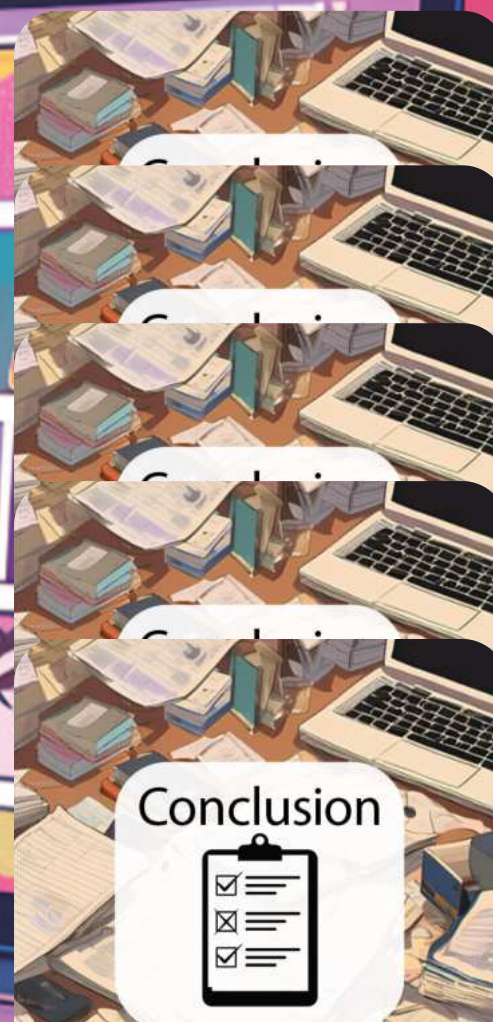
Sufficient data is collected



Statistically sound experimental design



wild card



Results make sense in the context of other research



Conference presentation



Data clearly supports or refutes hypothesis



Ignites new ideas for future research

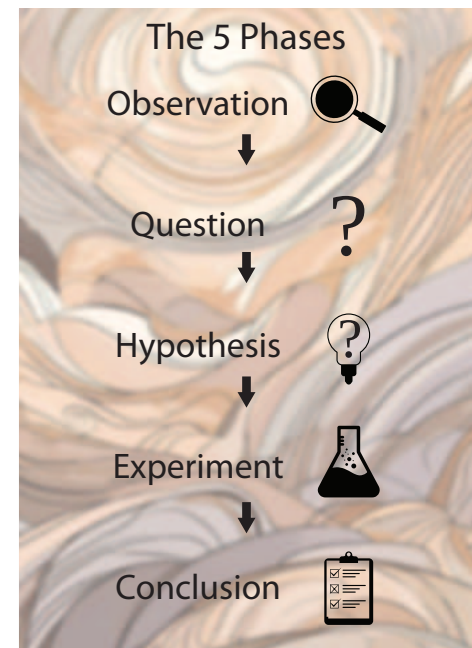
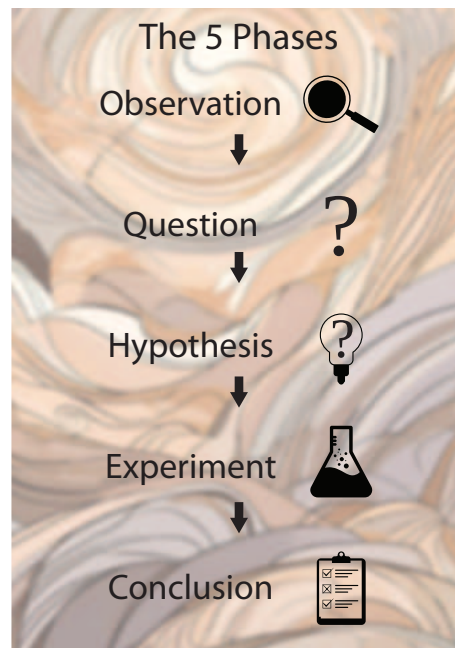
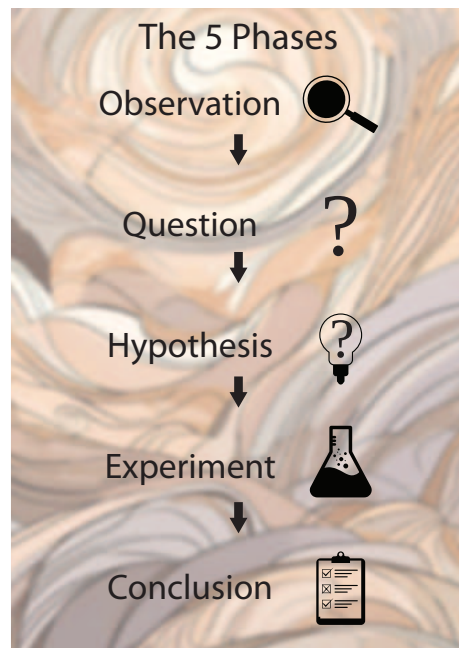
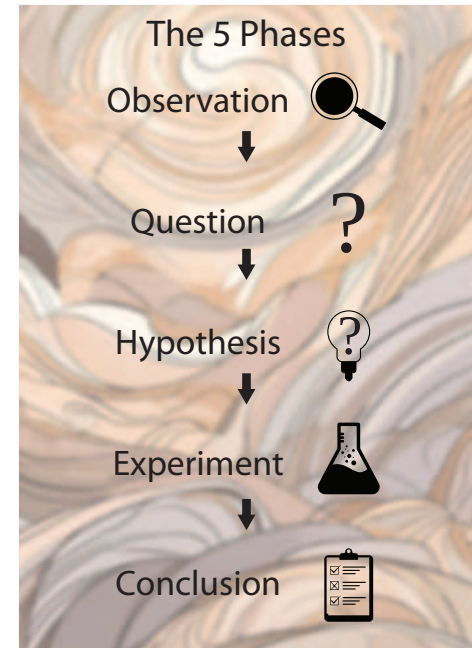
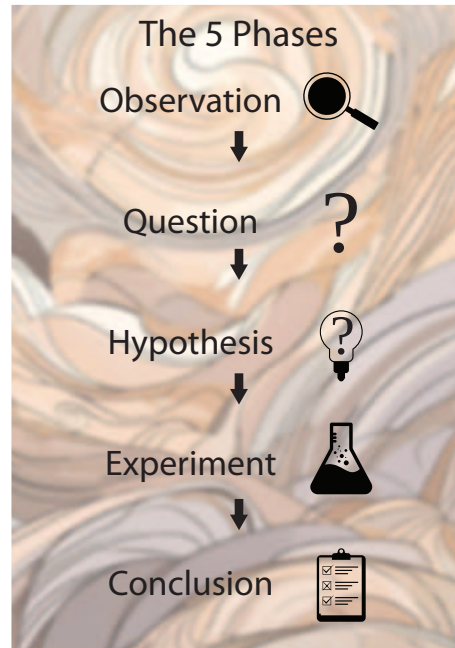
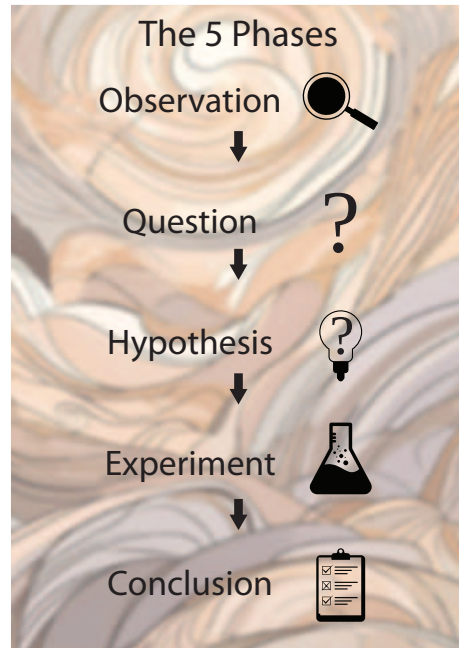


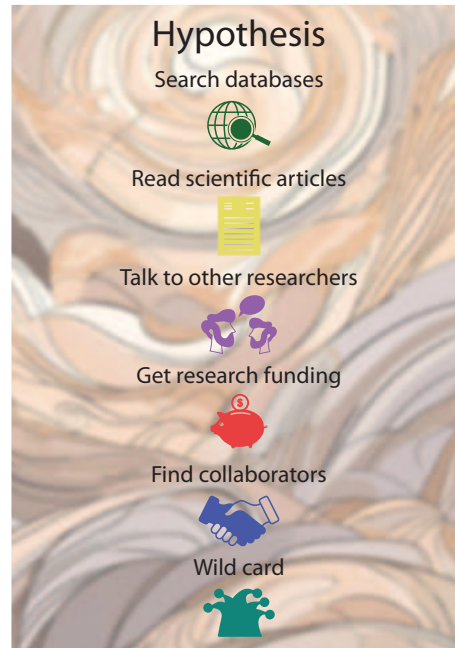
Successful publication



wild card









Experiment


High number of replicates




External variables are controlled




Statistically sound experimental design




Successful data collection



Sufficient data is collected




Wild card




Experiment


High number of replicates




External variables are controlled




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Successful data collection

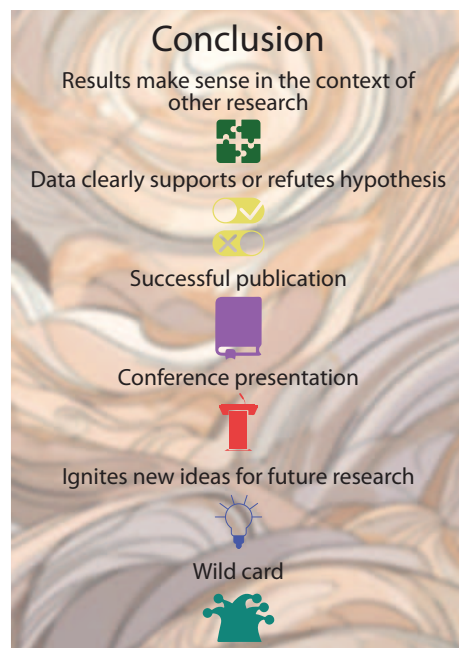
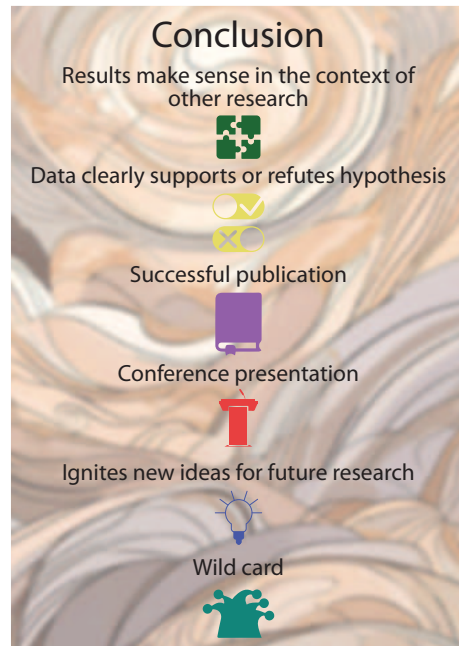


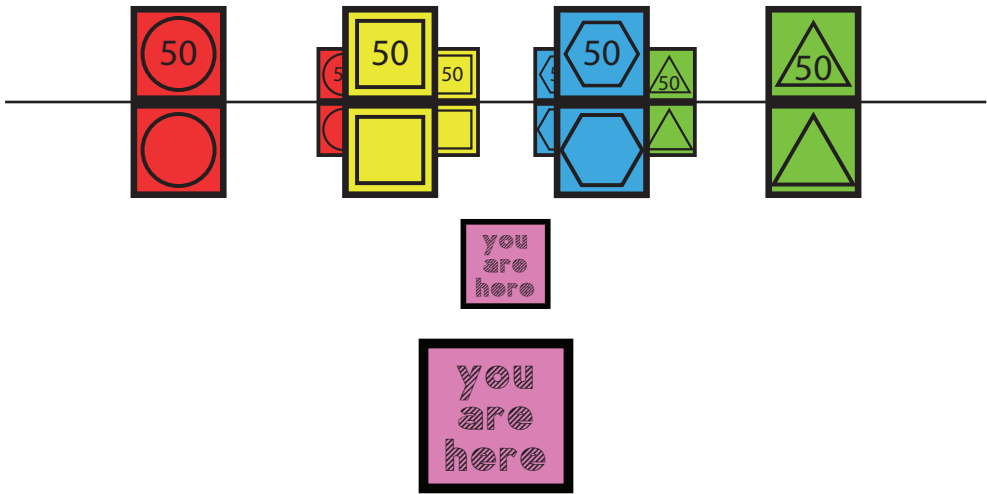
Sufficient data is collected



Wild card









Mental Health

Researchers can find plenty of online databases with mental health articles.

Psychology



Wolves in our forests

Databases such as Web of Science contain wildlife biology resources.

Ecology



Vaccines

Research hospitals such as Charite Berlin have resources on immunology.

Medicine



The Big Bang Theory

NASA has a large collection of data on deep space.

Physics



Pompeii volcanic eruption

National museums may have collections of first-person historical records.

History



Safe bridges

Databases such as web of science contain research on structural engineering.

Engineering



Origin of humans

Peer-reviewed articles are available on human migration out of Africa.

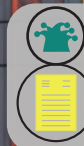
History



Sustainable architecture

Peer-reviewed articles are available on green construction materials.

Engineering



Human behaviour

Peer-reviewed articles are available on human behaviour.

Psychology



River restoration

Peer-reviewed articles are available on floodplain biodiversity.

Ecology



Health and heat

Peer-reviewed studies are available on health effects due to 40°C+ temperatures.


Medicine




Tiny, fast particles

Peer-reviewed articles are available on particle physics research.

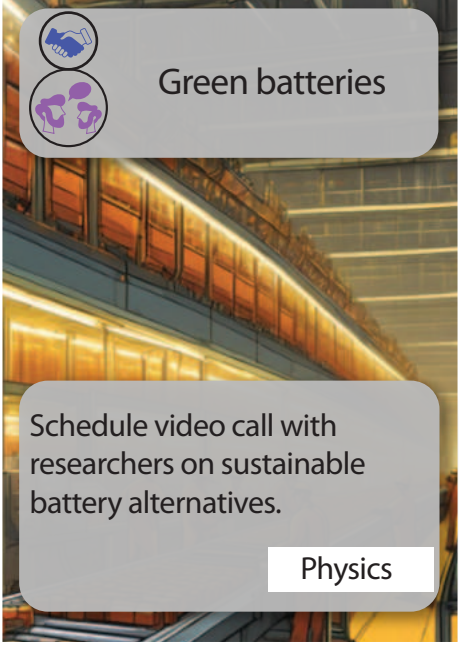
Physics




 Spread of malaria

Attend a malaria-specific conference with researchers from different continents.

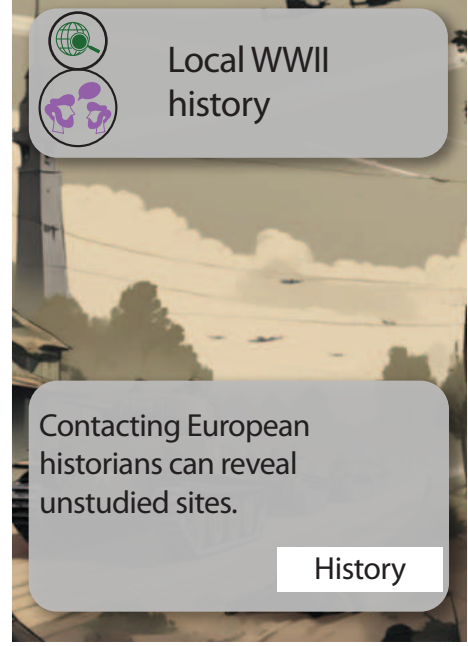
Medicine




 Green batteries

Schedule video call with researchers on sustainable battery alternatives.

Physics



 Local WWII history

Contacting European historians can reveal unstudied sites.

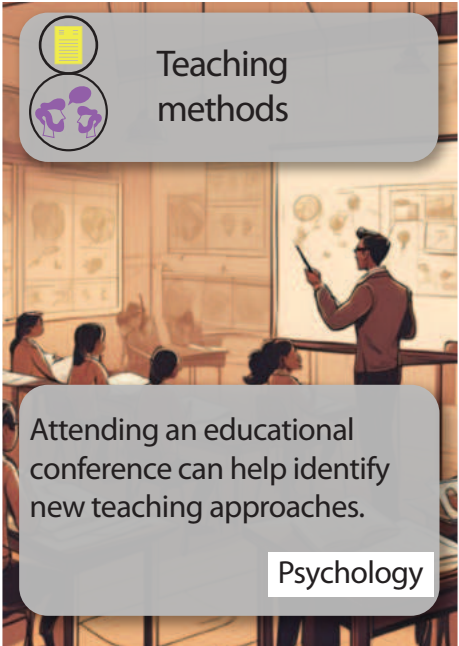
History




 Solar energy

Join a photovoltaic conference to network with researchers.


Engineering




 Teaching methods

Attending an educational conference can help identify new teaching approaches.

Psychology



 Loss of bees

Field trips help connect with fellow bee researchers.

Ecology



Clean air in schools

Propose a grant to study
air purifier's impact on
school disease spread.

Medicine



Aurora Borealis

Find a funding source for
research on solar radiation
and solar storms.

Physics



Reindeer herding

The EU funds research on
minority communities
like the Sami.

History



Efficient hydropower

Contact your national energy
sector for funding on
efficient electricity.

Engineering



Neuroplasticity

Build a strong proposal and
align it with funding priorities.


Psychology



Hydropower

Contact environmental
agencies for funding on
hydropower's ecological
effects.

Ecology



Social media



Talk to other researchers about youth mental health to identify collaborators.

Medicine



Earth's magnetic field



Contact former collaborators about a follow-up project on Earth's magnetism.

Physics



Women in sports



Contact historians in athletics and women's issues to find different perspectives.

History



Water purification



Connect with Global South research institutions on solar-powered water purification.

Engineering



Refugee integration



Join academic forums and network with experts on refugee issues.

Psychology

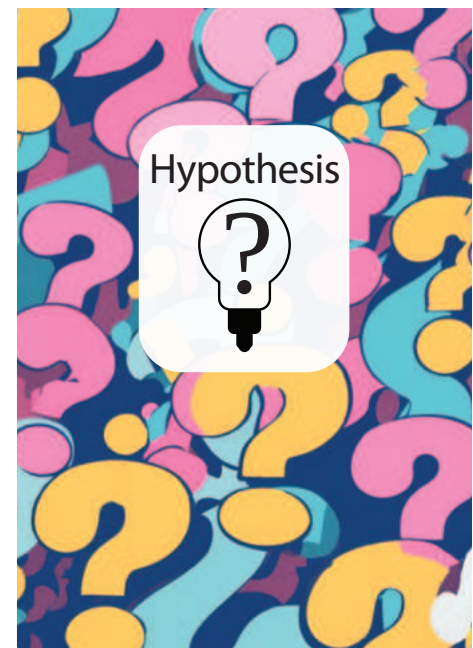
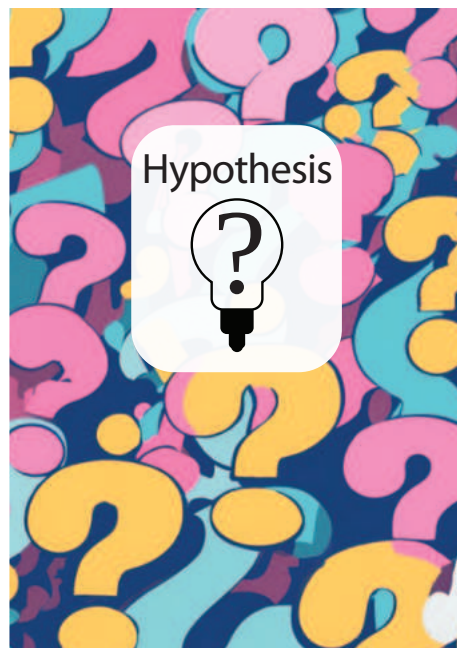
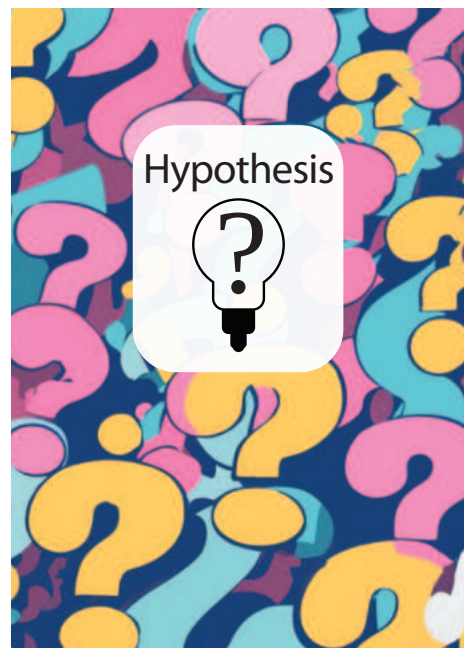
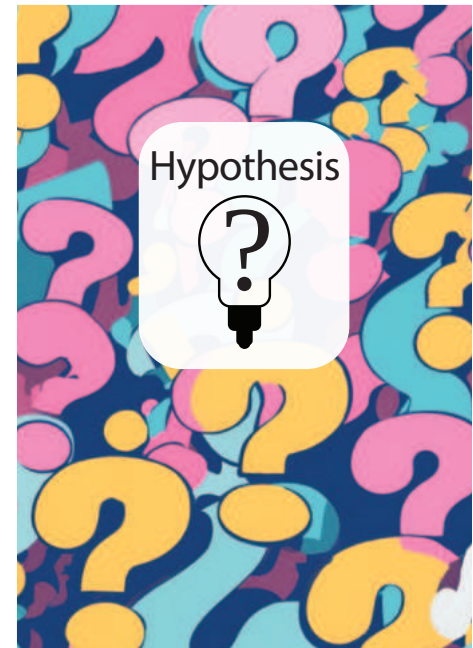
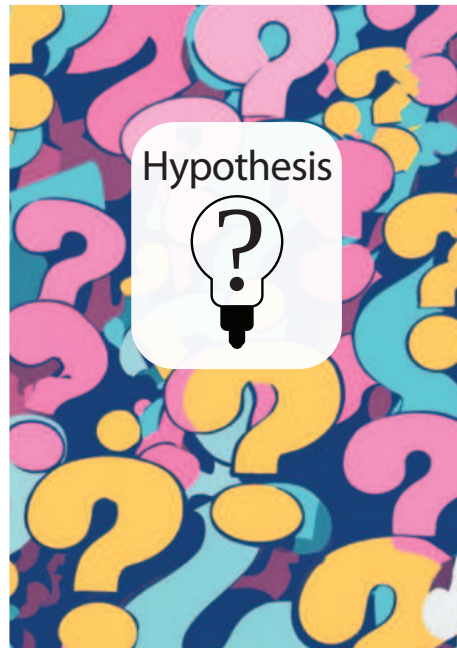
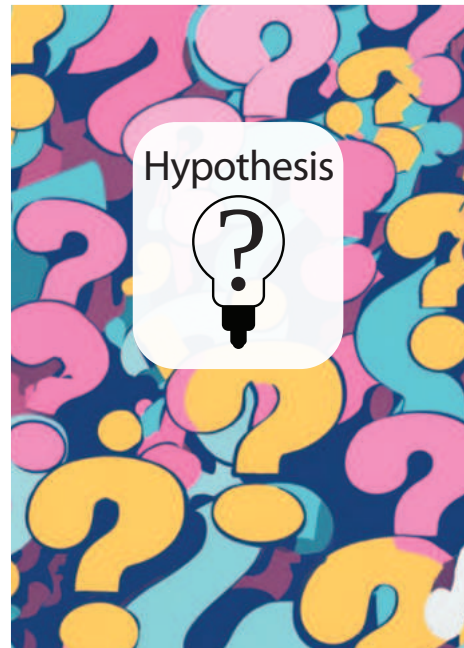


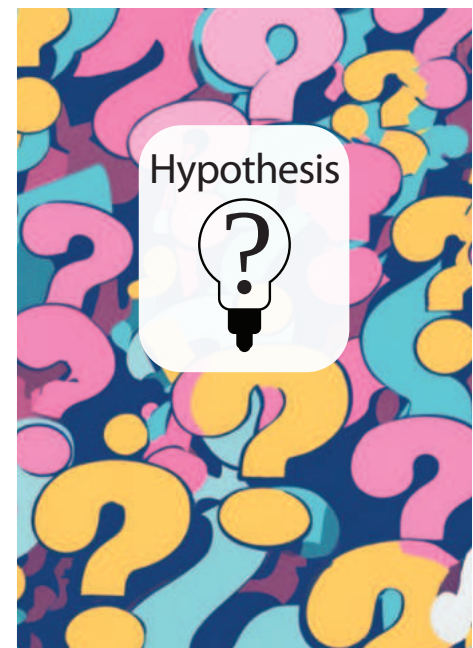
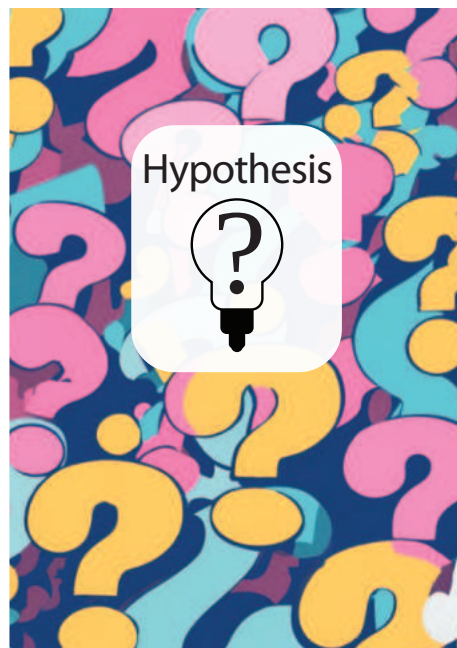
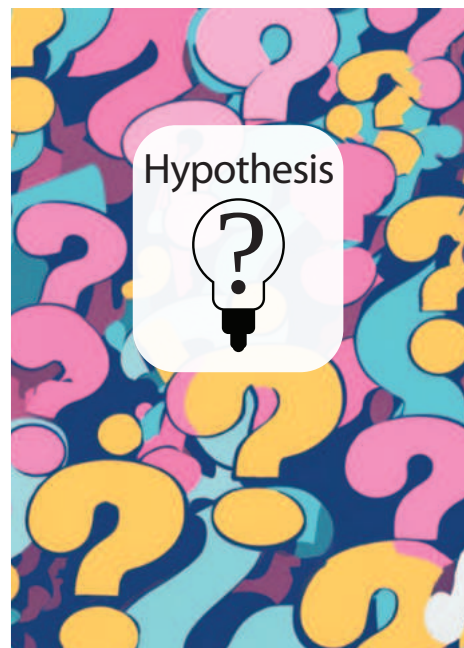
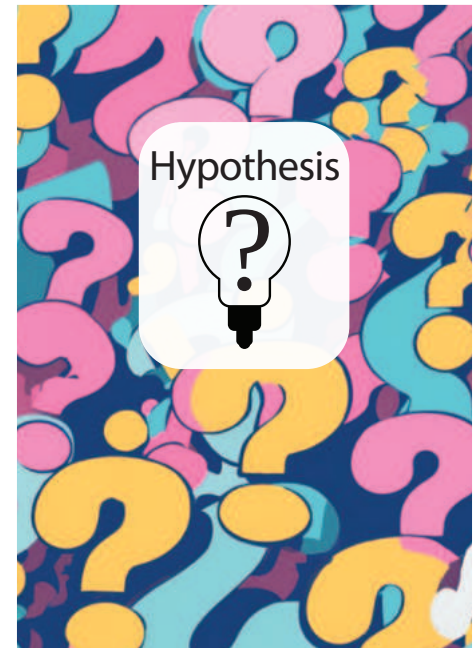
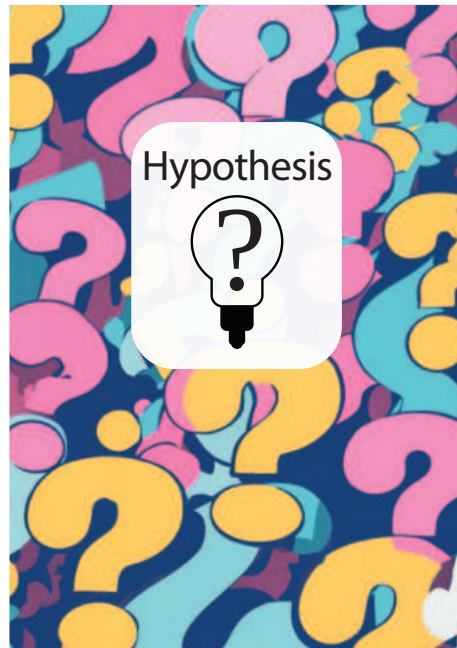
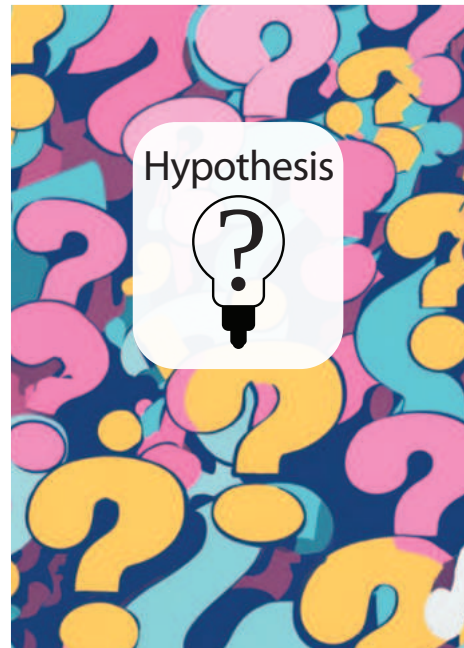
Invasive species

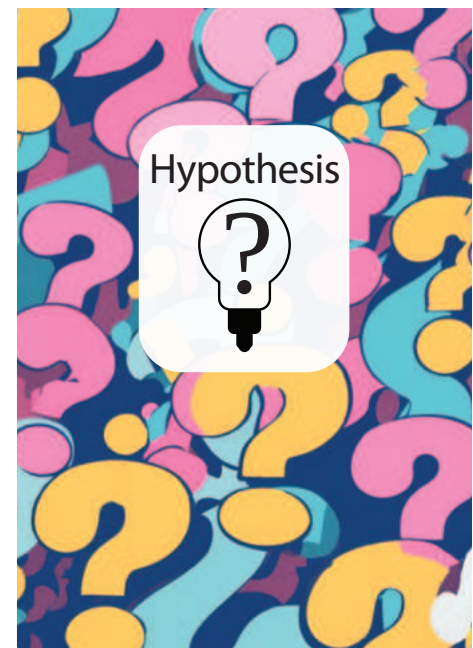
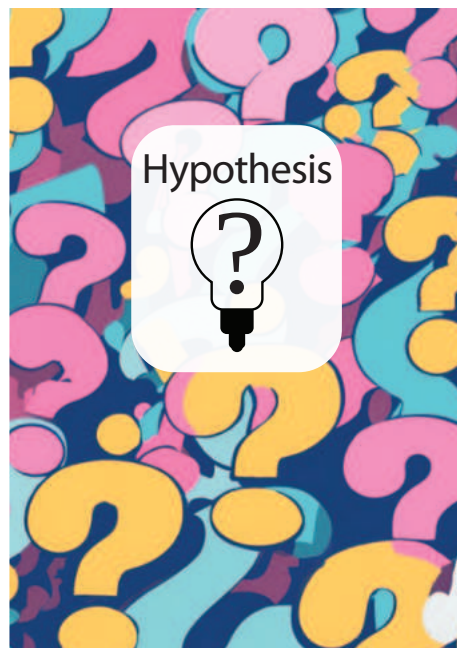
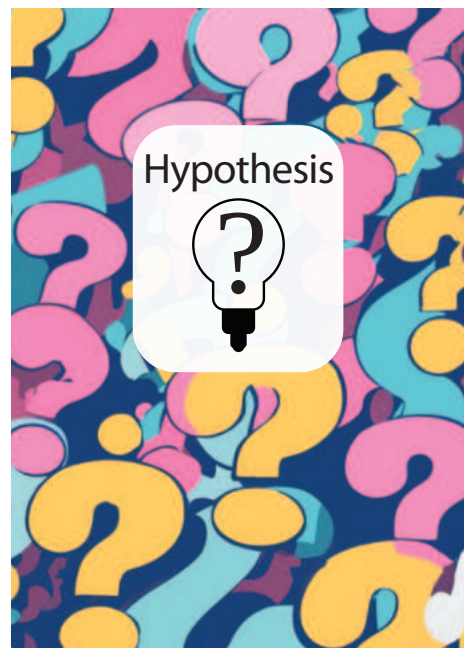
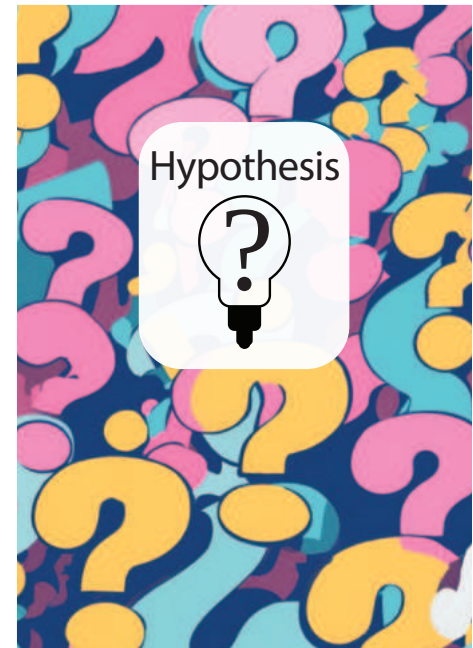
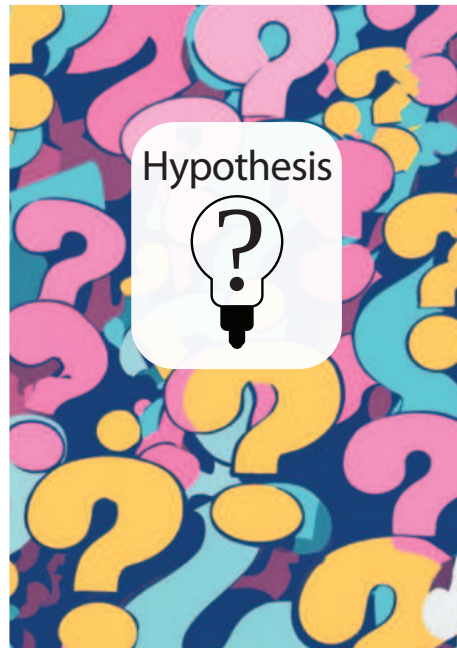
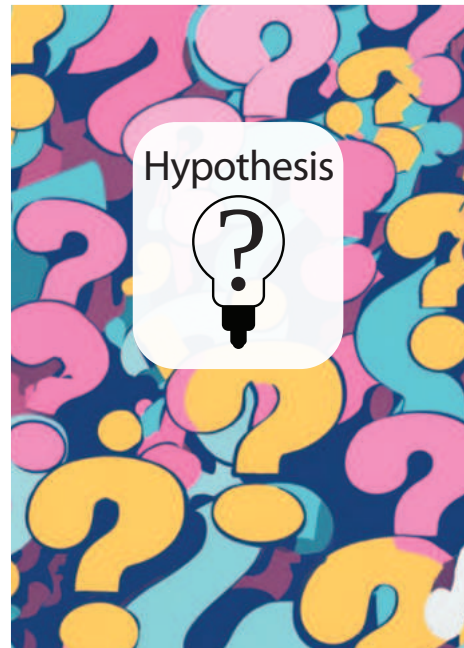


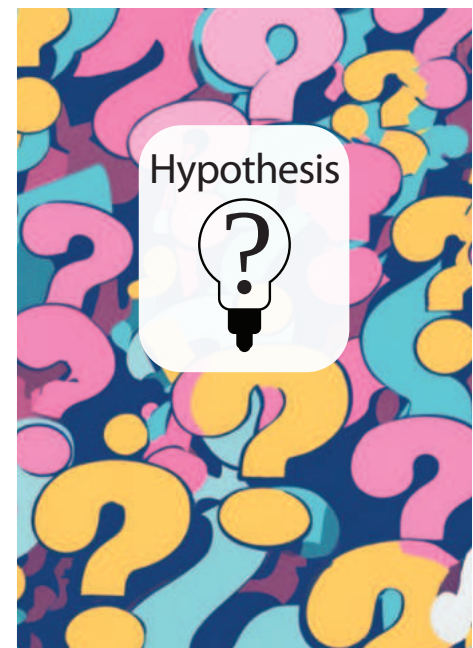
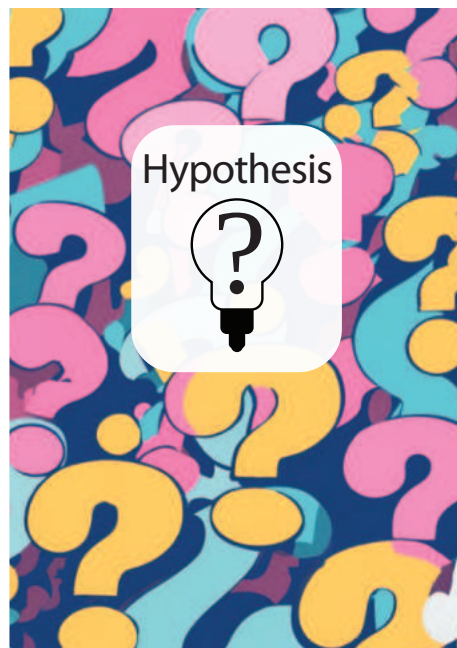
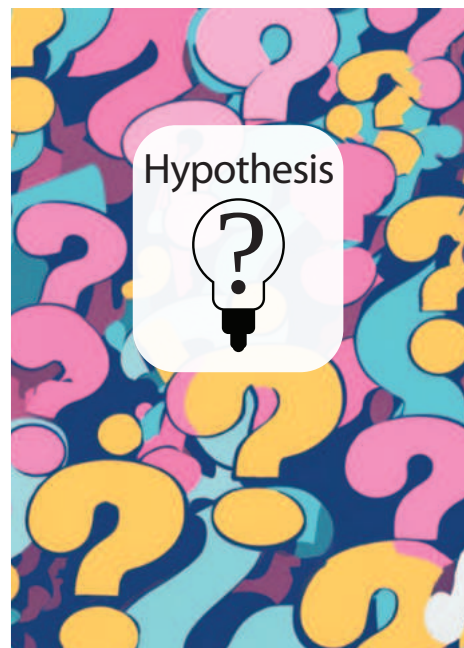
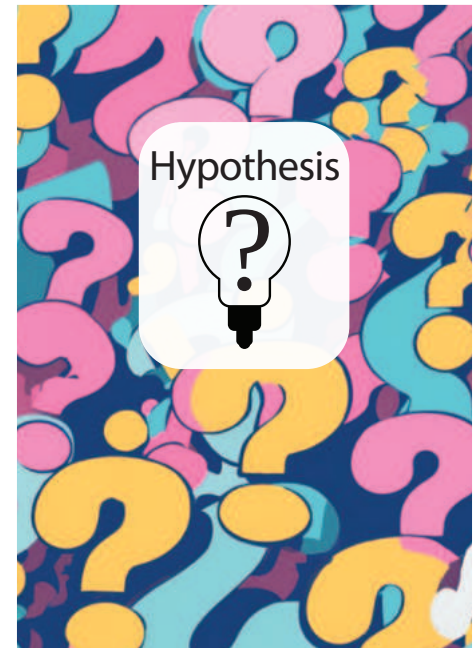
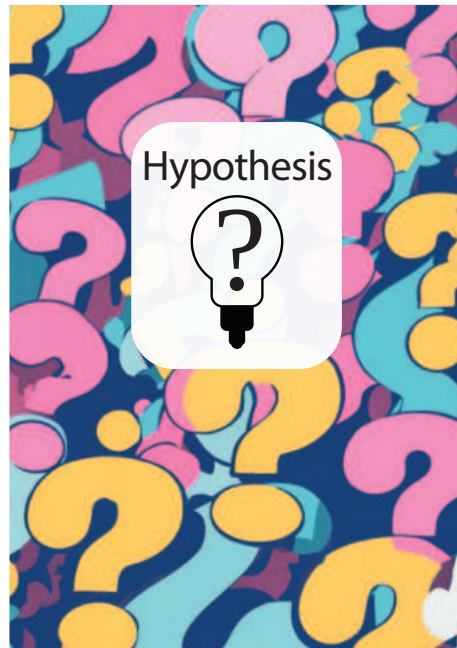
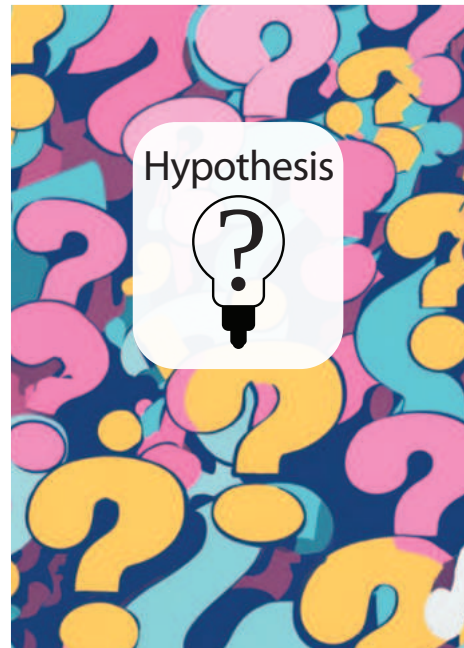
Contact experts on invasive species and their impact on local ecosystems.

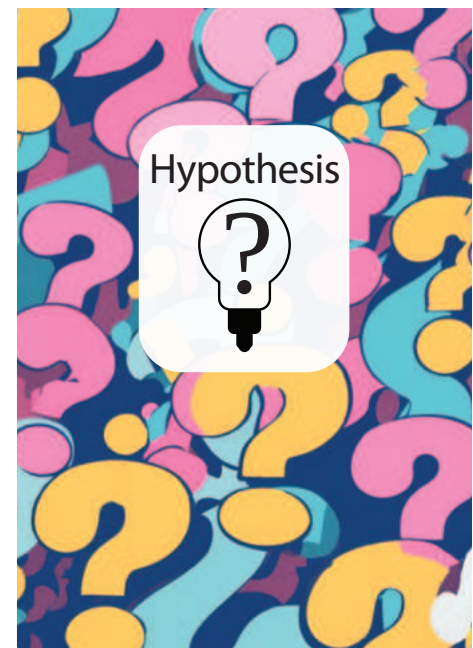
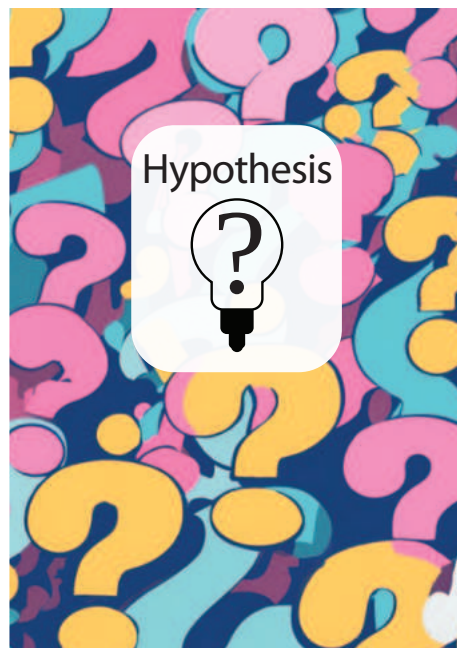
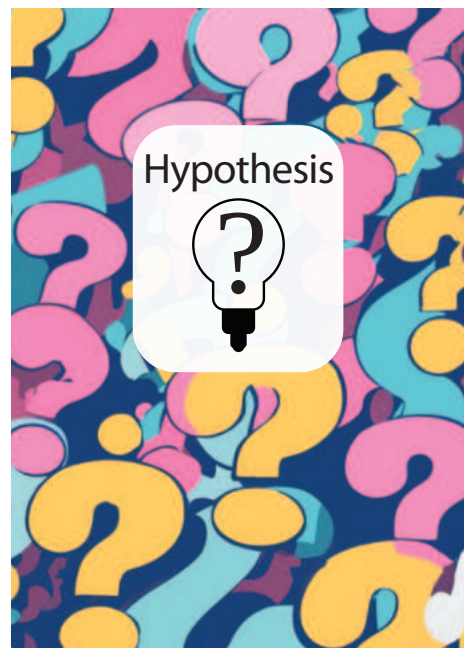
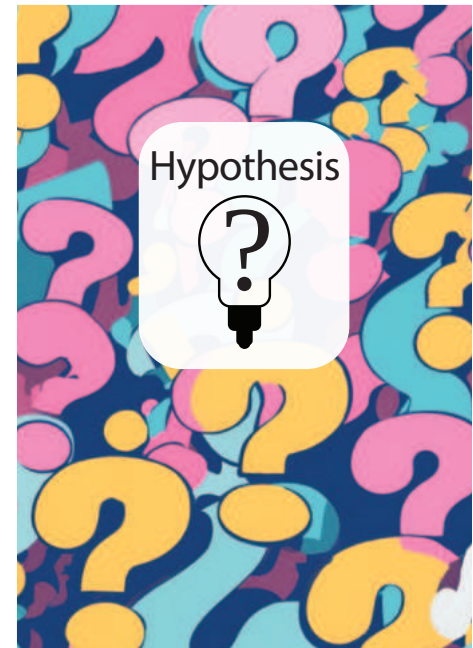
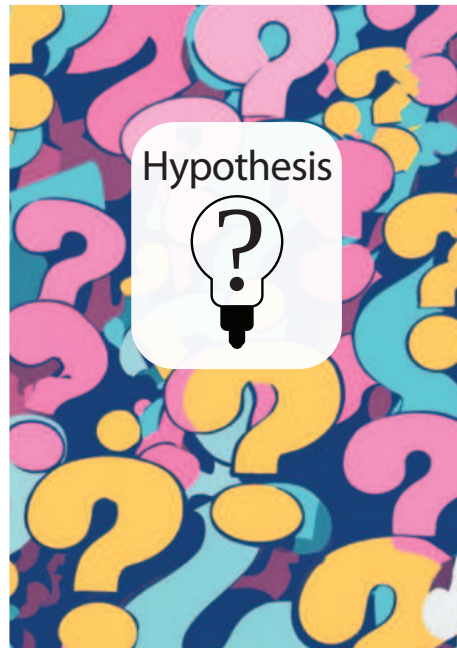
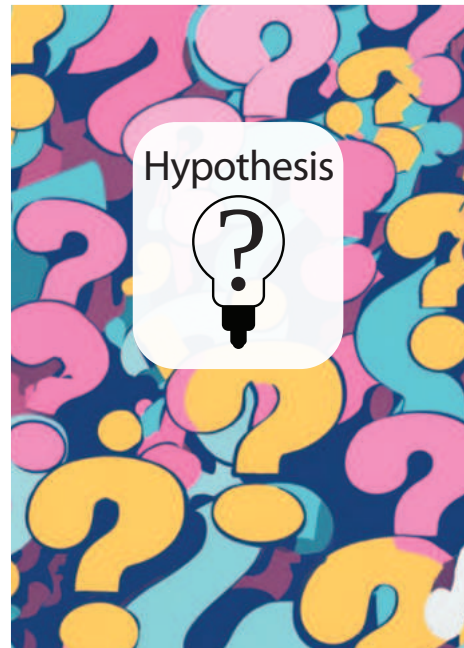
Ecology













A good nights sleep

Many test subjects are required to determine how stress affects sleep.

Medicine



Higgs Boson Particle

Billions of collisions in the Large Hadron Collider led to discovering the Higgs Boson.

Physics



Pre-historic humans

Many burial sites are needed to confirm prehistoric human burial practices.

History



Hot cities

Ten engineering solutions test urban designs to cool cities.

Engineering



Stress Management

Many test subjects are needed to identify the effectiveness of stress management methods.

Psychology



Hot cities

Ten urban test sites assess tree species for minimizing heat waves.

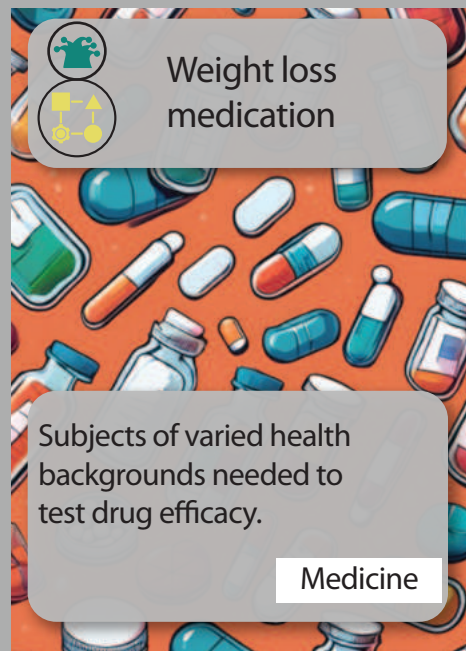
Ecology



Safe nuclear waste disposal

Long term test sites are needed to determine safe disposal.

Engineering



Weight loss medication

Subjects of varied health backgrounds needed to test drug efficacy.

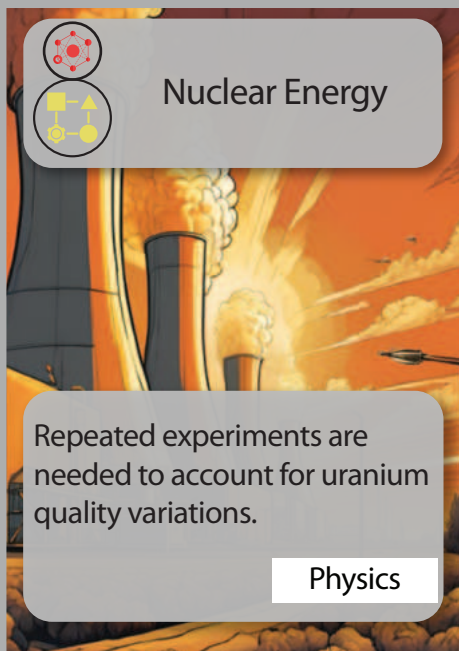
Medicine



Placebo Effect

Double-blind procedures are used to show the placebo effect and control variables.

Psychology



Nuclear Energy

Repeated experiments are needed to account for uranium quality variations.

Physics



Biodiversity

Fish biodiversity studies cover streams with varied environmental conditions.

Ecology



Political stance

Political opinion surveys should include social background questions.

History



Vaccines

Minimum numbers of test subjects are needed to prove vaccine efficacy.

Medicine



Galileo and the sun

Galileo tracked stars for years to prove Earth's orbit around Sun, not just once.

Physics



Galileo and the sun

Many sources were used to document the conflict between Galileo and his peers.

History



AI weather prediction

AI needs to include many weather models in order to make accurate predictions.

Engineering



Factors of drug use

Many data points are needed to establish a link between substance abuse and risk factors.

Psychology



Greenhouse gas emissions

Global emissions data are essential for assessing global impacts of climate change.

Ecology



Coronavirus pandemic

Early pandemic movement data revealed insights into coronavirus spread.

Medicine



Sound in water

Many experiments determined how sound travels in varying water chemistries.

Physics



Coronavirus pandemic

Early pandemic movement data revealed insights into coronavirus spread.

History



Quieter oceans

Multiple experiments revealed how boat engine noise travels in seawater.

Engineering



Forensic Psychology

Extensive data collection provided insight into criminal behavior in justice systems.

Psychology



Marine noise and mammals

Extensive data collected revealed how whale behaviour relates to fishing vessels.

Ecology



Climate change anxiety

A lot of data on youth antidepressant use for climate anxiety was collected.

Medicine



Extreme weather models

Climate models for extreme weather require extensive global atmospheric data.

Physics



Climate activism history

Many first-person sources document 50 years of environmental activism.

History



Flood protection

Accurate flood models are needed to predict water levels.

Engineering



Climate change anxiety

Data from 1,000 diverse participants ensures reliable insights on climate anxiety.

Psychology



Wildfires

Data on global wildfires over time is needed to assess climate change effects.

Ecology













Air pollution

Several studies link higher asthma rates to increased air pollution.

Medicine



Fusion energy

Recent experiments confirm net energy gain from fusion reactions.

Physics



Industrial Revolution

Many studies show how industrialization reshaped the world economy.

History



Clean diesel engines

Studies confirm that diesel engine advances cut particulate matter.

Engineering



Mood regulation

Research confirms nature boosts mood, reduces stress, and improves well-being.

Psychology



Industrial Revolution

Many global studies confirm CO₂ rise since the industrial revolution.

Ecology



Nanotechnology

Studies clearly show graphene oxide filters remove more heavy metals than other filters.

Engineering



Remote Work

Studies clearly show home office helps balance burnout and boost productivity.

Psychology



Invasive species

Europe-wide study finds fewer native red squirrels where grey squirrel populations are high.

Ecology



Mental health

New studies clearly show that a new anti-anxiety medicine reduces anxiety.

Medicine



The big bang theory

New Planck Satellite data strongly supports the cosmic inflation theory.

Physics



History of literacy

Enlightenment-era school records show rising enrollment, clearly indicating increased literacy.

History



Superbugs

A research paper on antibiotic-resistant bacteria is published after expert revisions.

Medicine



Black holes

The Event Horizon Telescope's black hole images were published after expert review.

Physics



Women in science

A paper on women in science is accepted after expert review in a credible journal.

History



Biomechanics

A study on a new prosthetic limb is published after expert review.

Engineering



Space travel

A famous journal published studies on the psychological impacts of space missions.

Psychology



Glacial melt

A paper on global glacier melting rates is published after peer review.

Ecology



The human microbiome

A study on the human microbiome is presented at a conference.

Medicine



Supercomputers

Developments in quantum computing are presented at a conference.

Physics



Egypt's pyramids

A study on ancient construction methods is presented at a conference.

History



3D printing

New technology for 3D printing is presented at a conference.

Engineering



Digital detox

A digital detox study at a conference will reveal gaps and inspire new insights.

Psychology



Ocean nutrient cycles

A study on agricultural runoff's impact on oceans is presented at a conference.

Ecology



Gene editing

A successful gene-editing trial for blindness paves the way for treating other genetic disorders.

Medicine



Superconductors

Discovery of high-temperature superconductors drives research into better power grids.

Physics



Alternative histories

African American perspectives refocus research on historical events.

History



Self-driving cars

Autonomous vehicle technology offers new research opportunities in urban design.

Engineering



AI and human interaction

AI's role in work and decisions raises new research questions on mental health and ethics.

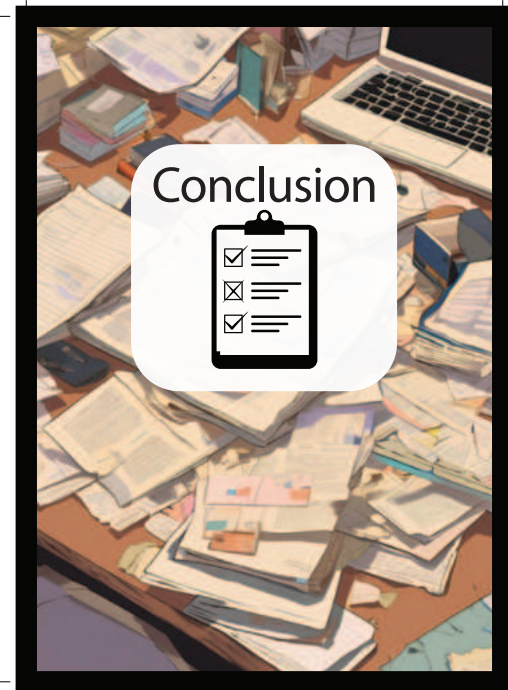
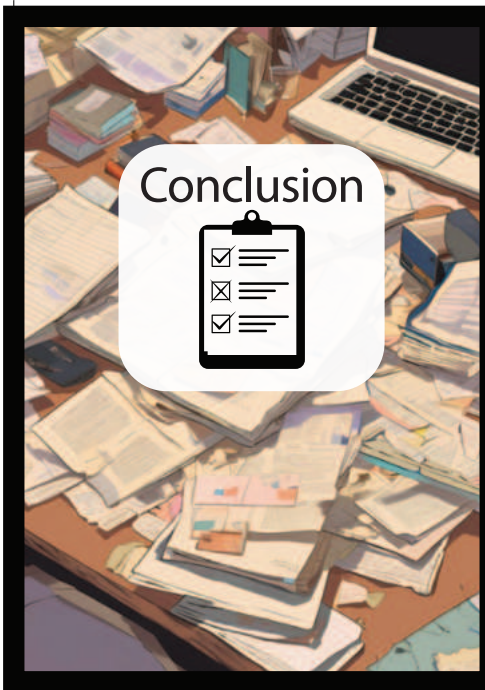
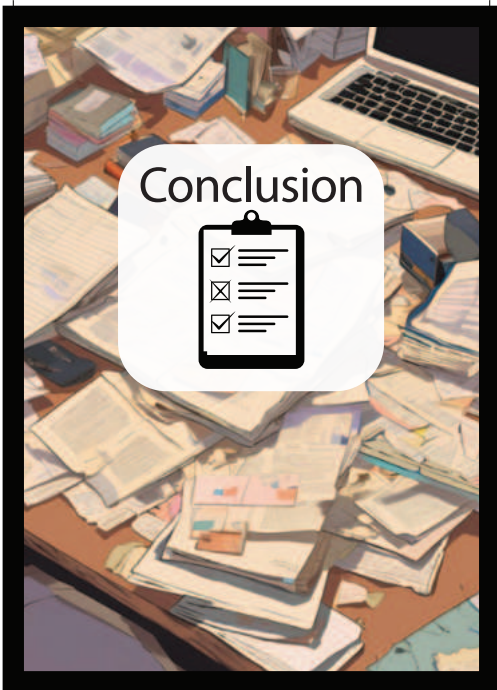
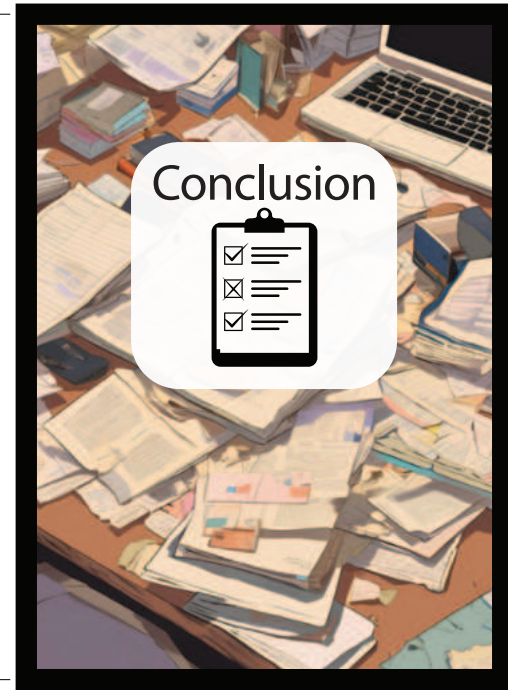
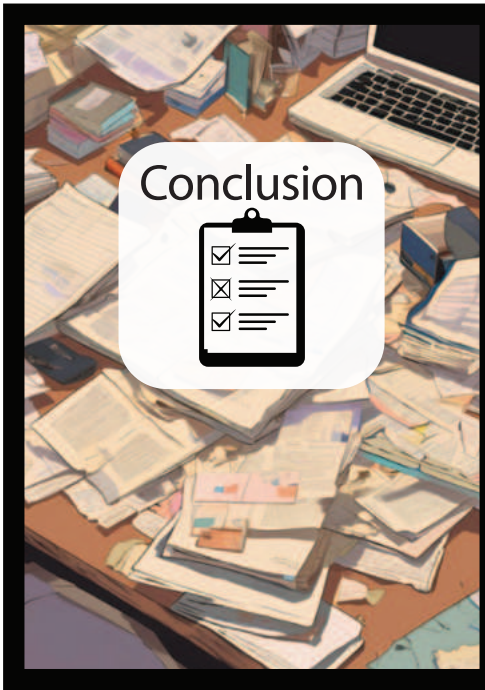
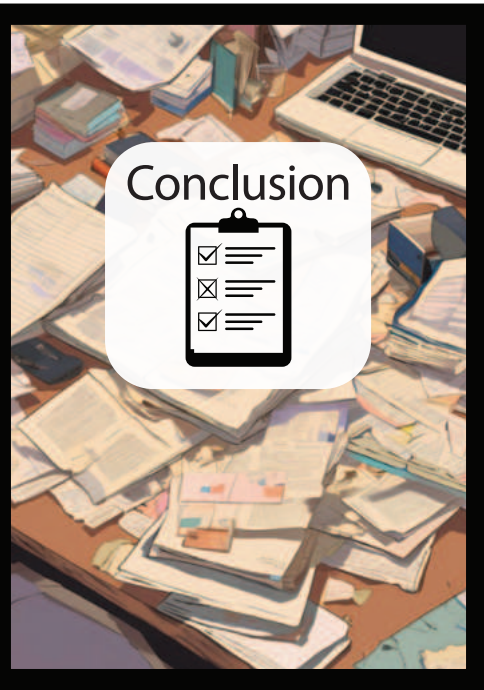
Psychology

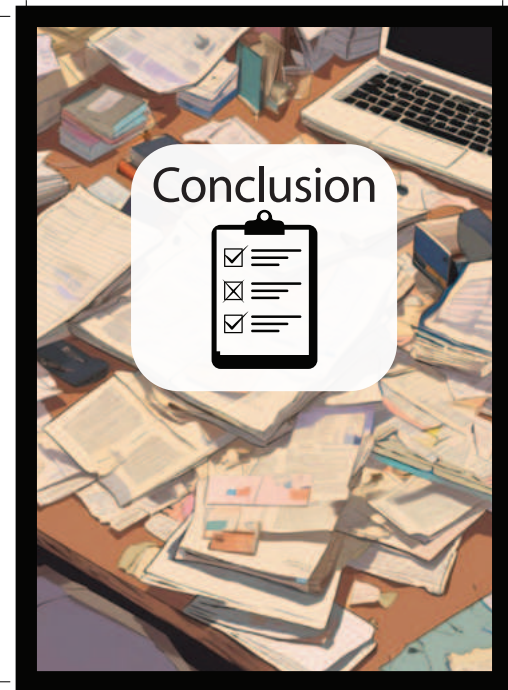
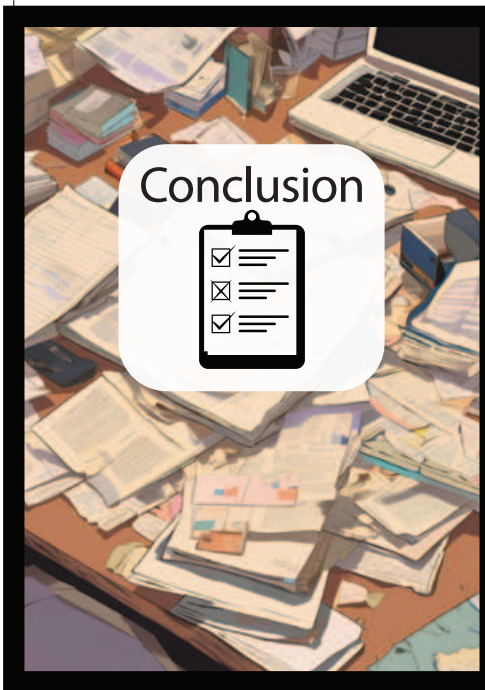
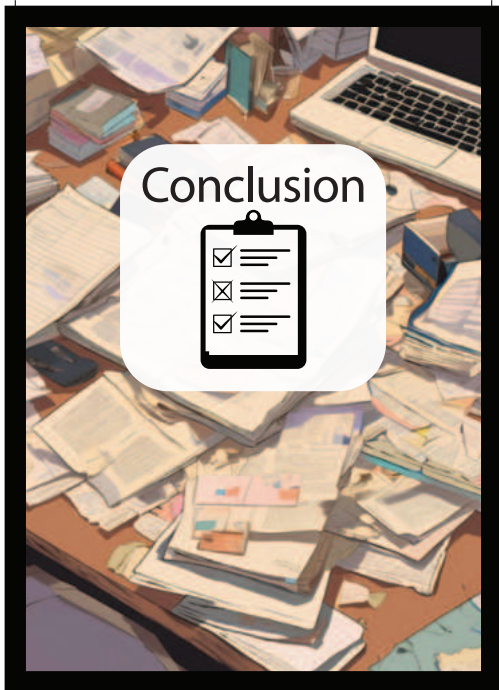
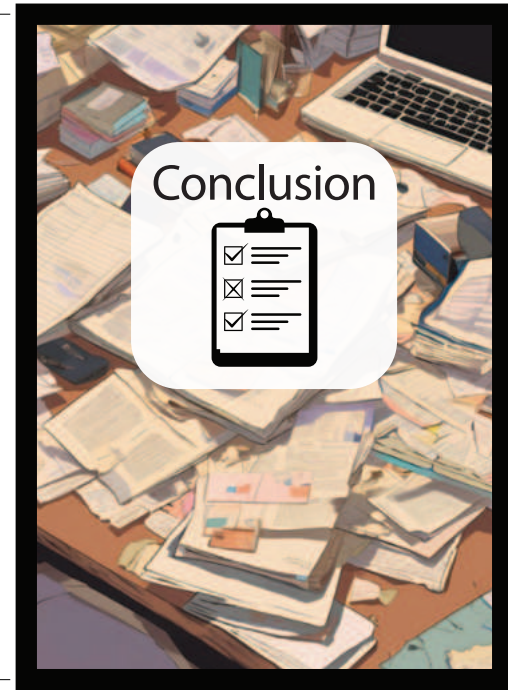
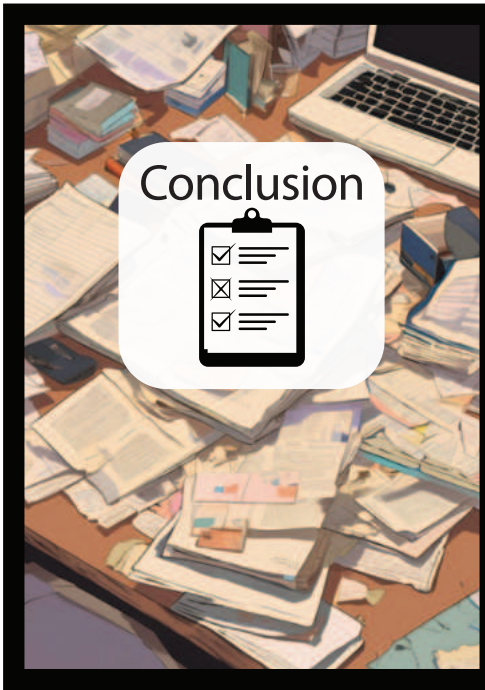
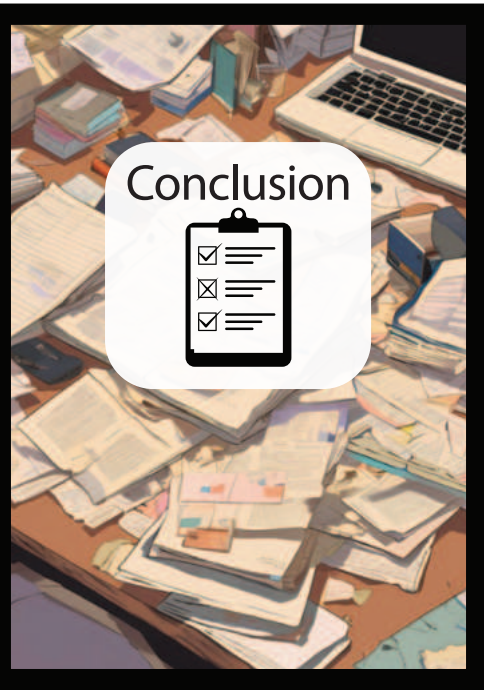


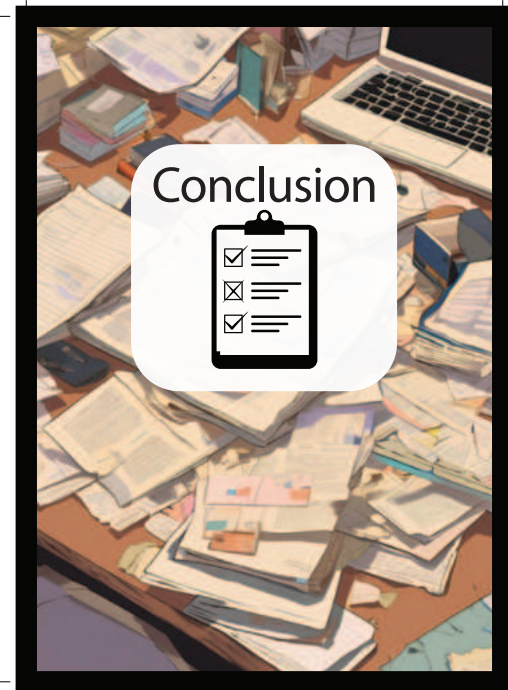
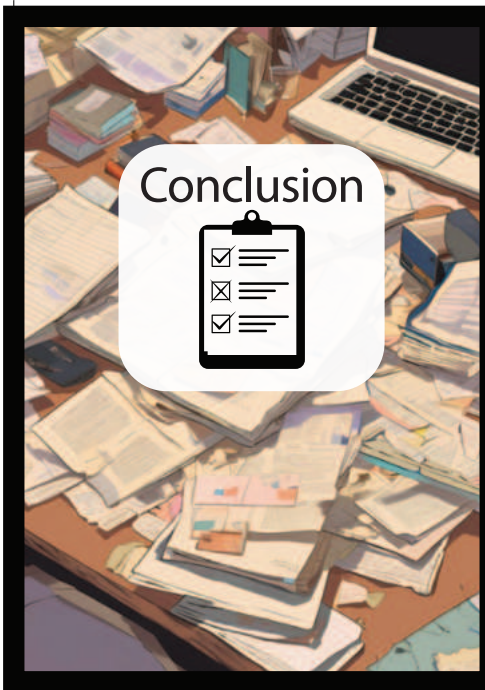
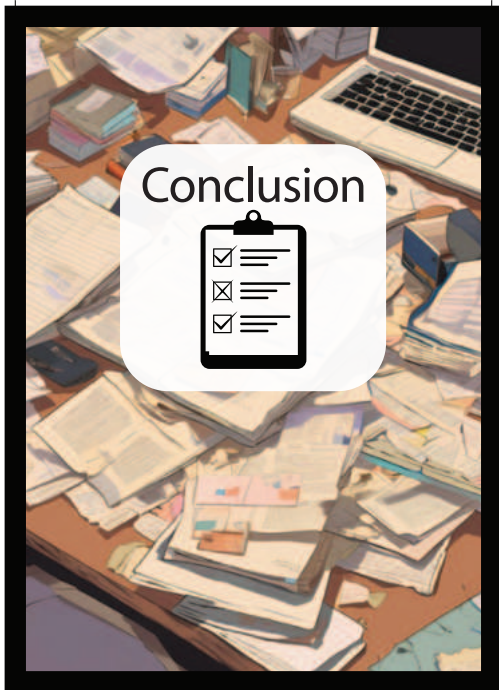
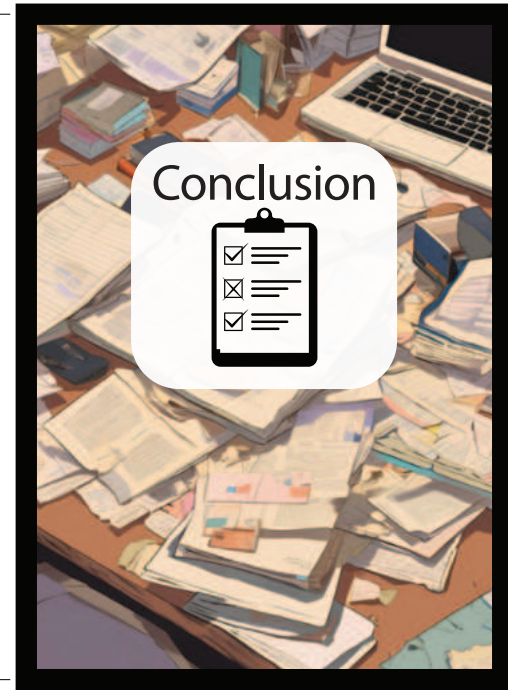
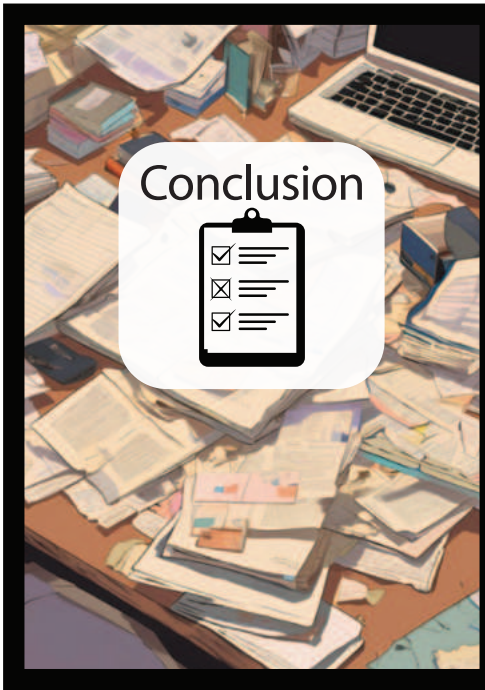
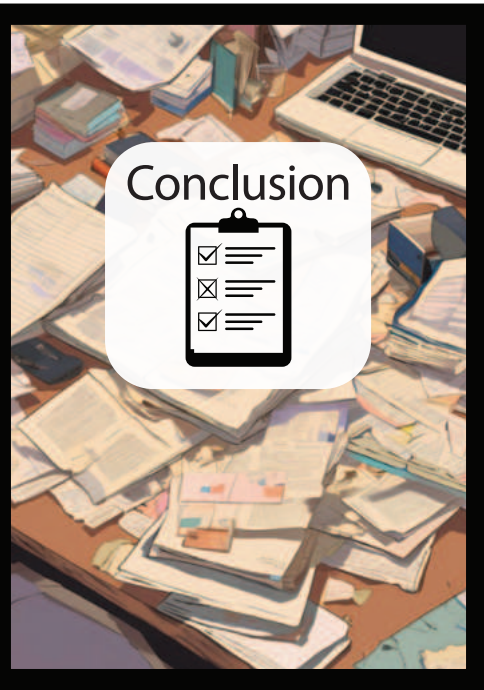
Whales and sailboats

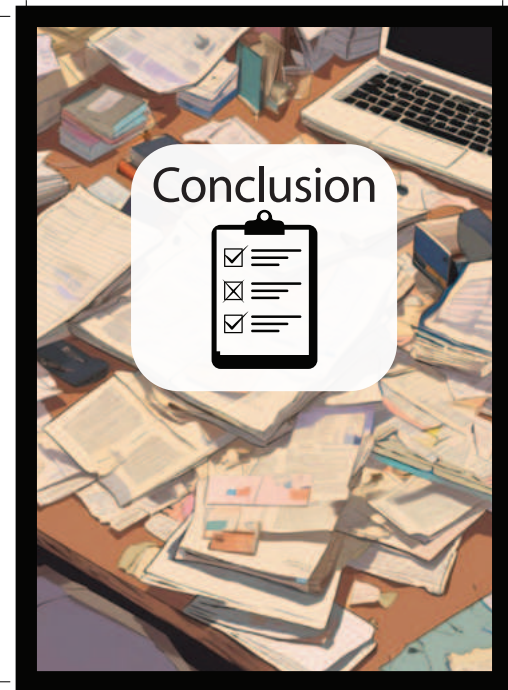
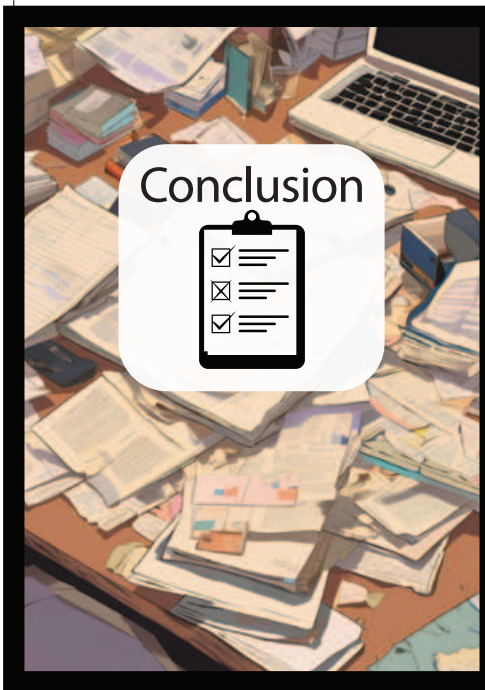
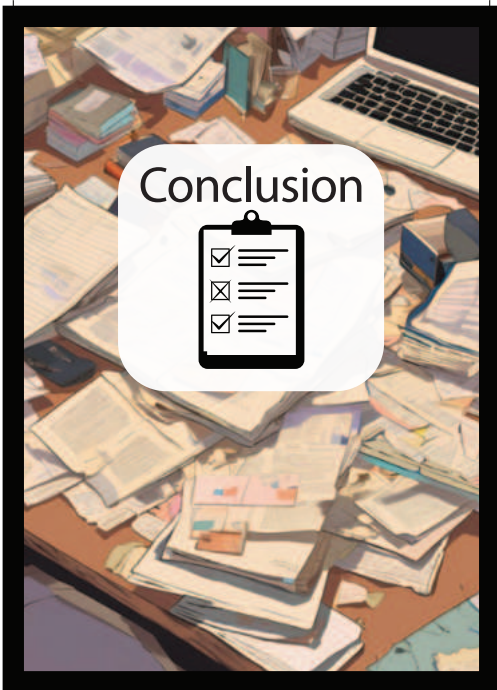
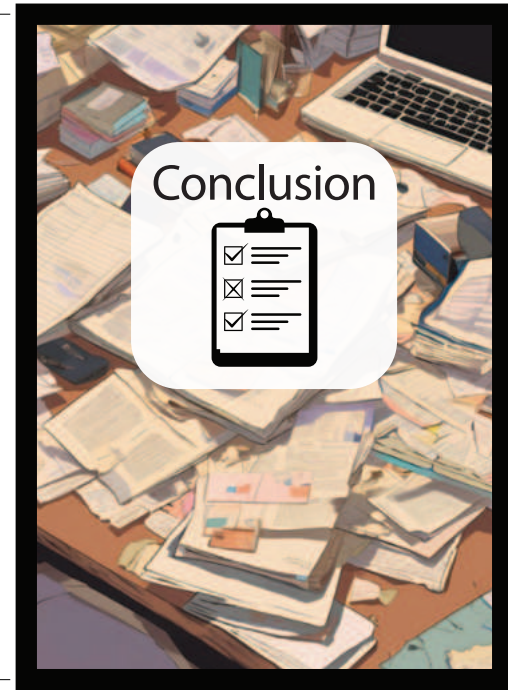
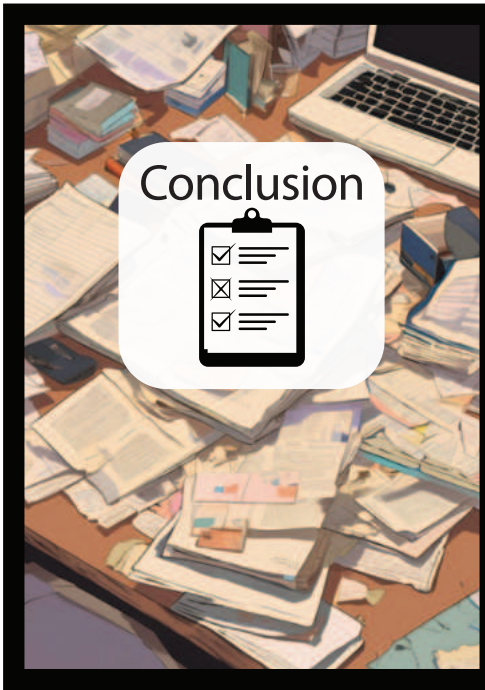
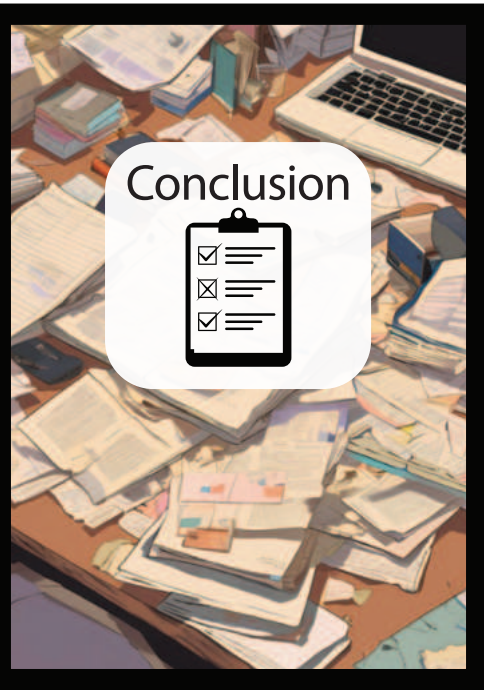
Studies show orcas learn to 'play' with boats, spurring more behavioural research.

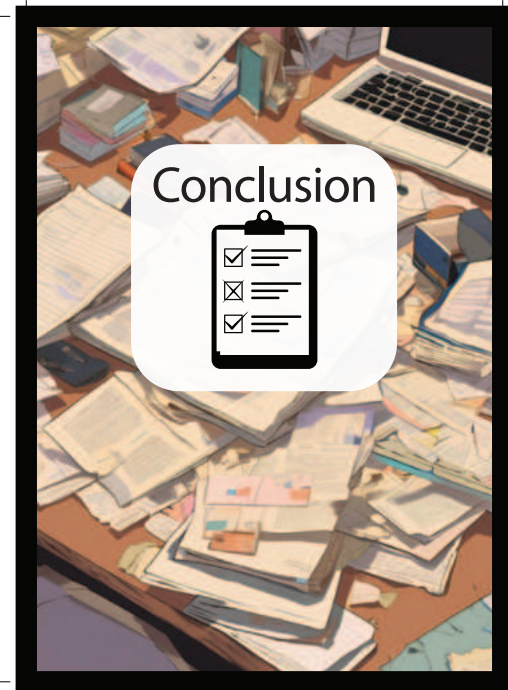
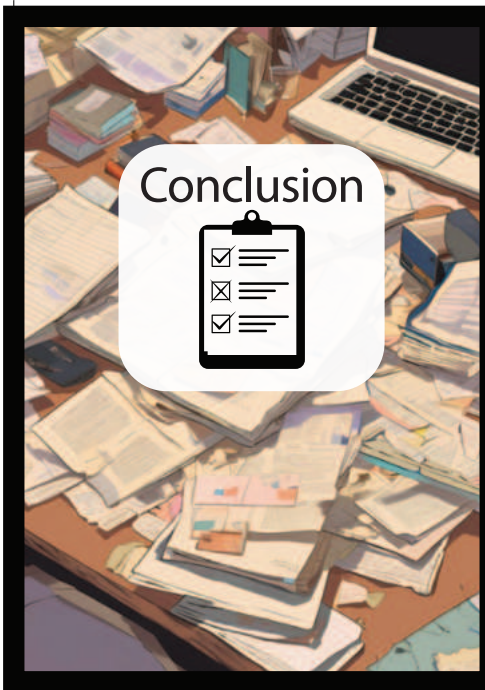
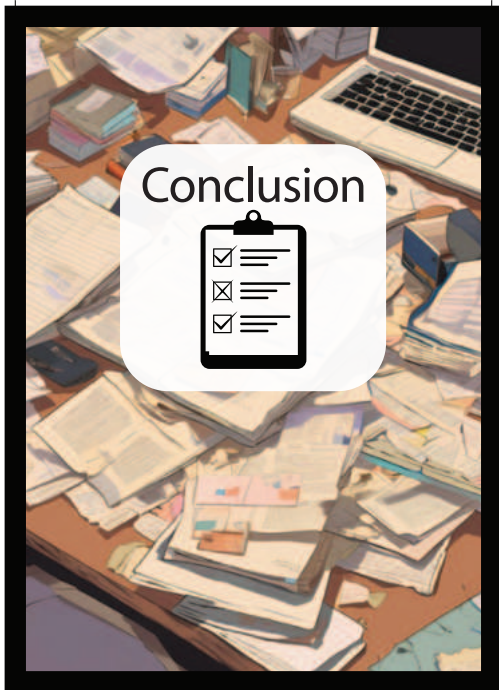
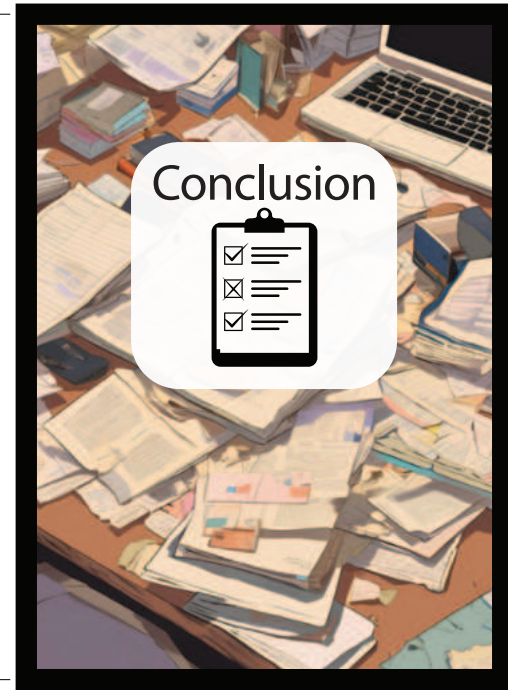
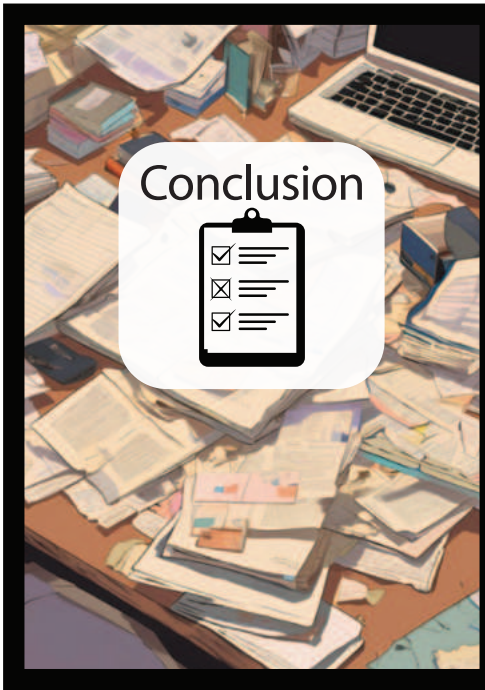
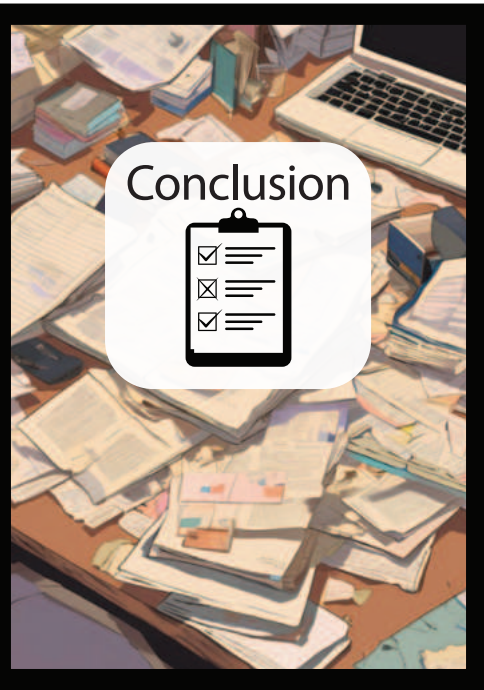
Ecology











Build a robot

Gain 1 Point for each card belonging to the Engineering field.

Develop new technology to create your own humanoid assistant.

Get moving!

Gain 1 Point for each card belonging to the Medicine field.

Explore how regular physical activity benefits overall health.

Animal Behaviour

Gain 1 Point for each card belonging to the Ecology field.

Study what food makes fish smarter.

History of communication

Gain 1 Point for each card belonging to the History field.

Study the evolution of how we communicate: from smoke signals to smartphones

The science of happiness

Gain 1 Point for each card belonging to the Psychology field.

Explore what factors contribute to a happy life.

The physics of fun

Gain 1 Point for each card belonging to the Physics field.

Explore the physics principles to build a rollercoaster.

VR Therapy

Gain points for each Chain starting with Symbol:



3 Chains ➡ 2 Points
4 Chains ➡ 7 Points
5 Chains ➡ 13 Points
6 Chains ➡ 20 Points

Develop new technology to create virtual therapeutic environments.

The new opera house

Gain Points based on the amount of cards from the Physics and Engineering fields:

4 or less: 0
5-7: 6
8-10: 7
11-13: 8
14+: 10

Examine how sound waves physics is used to design concert halls.

Antibiotics from nature

Gain Points based on the amount of cards from the Medicine and Ecology fields:

0-4: 0
5-7: 6
8-10: 7
11-13: 8
14+: 10

Evaluate how biodiversity hotspots, like the Amazon, are a reservoir for undiscovered medicine.

Biomedical engineering

Gain Points based on the amount of cards from the Psychology and Medicine fields:

0-4: 0
5-7: 6
8-10: 7
11-13: 8
14+: 10

Combine engineering and medicine to develop new prosthetic limbs.

Clean the poop!

Gain 4 Points for each field that you have more cards than both adjacent players. (3+ players)

Study how the biological and technological processes can clean our wastewater.

History of flight

Gain points for each Chain starting with Symbol:



3 Chains ➡ 2 Points
4 Chains ➡ 7 Points
5 Chains ➡ 13 Points
6 Chains ➡ 20 Points

Study how aerospace technology developed throughout our history

Traditional medicine

Gain points for each Chain starting with Symbol:



3 Chains ➡ 2 Points
4 Chains ➡ 7 Points
5 Chains ➡ 13 Points
6 Chains ➡ 20 Points

Explore how ancient healing practices can be integrated into modern medicine.

The Placebo Effect

Gain 4 Points for each field that you have less cards than both opponetns.

Examine the healing powers of how a personal belief in a treatment affects the patient.

Mission to Mars!

Gain points for each Chain using the Symbol:



3 Chains ➡ 2 Points
4 Chains ➡ 8 Points
5 Chains ➡ 14 Points
6 Chains ➡ 21 Points

Study both the physics of space travel and effects on human health.

History of conservation

Gain Points based on the amount of cards from the Ecology and History fields:

4 or less: 0
5-7: 6
8-10: 7
11-13: 8
14+: 10

Study how environmental conservation has changed over time.

Humans and their environment

Gain points for each Chain starting with Symbol:



3 Chains ➡ 2 Points
4 Chains ➡ 7 Points
5 Chains ➡ 13 Points
6 Chains ➡ 20 Points

Examine how environment affects human behavior.

Keeping your cool

Gain points for each Chain starting with Symbol:



3 Chains ➡ 2 Points
4 Chains ➡ 7 Points
5 Chains ➡ 13 Points
6 Chains ➡ 20 Points

Study how plants and animals adapt to temperature changes.

Einstein's brain

Gain Points based on the amount of cards from the History and Psychology fields:

4 or less: 0
5-7: 6
8-10: 7
11-13: 8
14+: 10

Analyze the psychological traits of famous historical scientists.

The atomic bomb

Gain 2 Points for each field you have more cards than at least one other player.

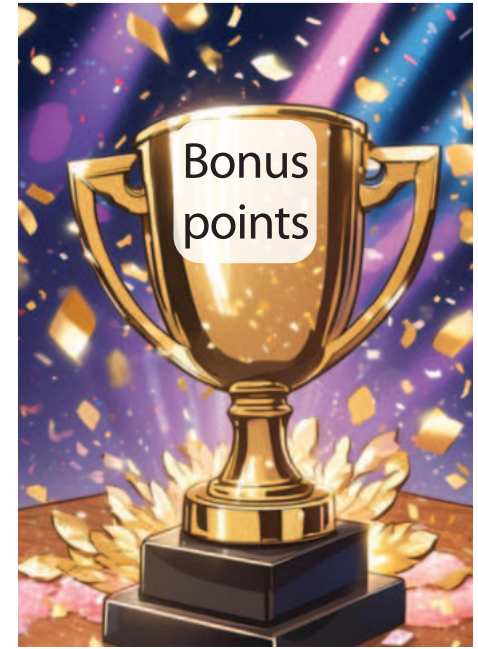
Delve into both the physics and the history of atomic weapons.

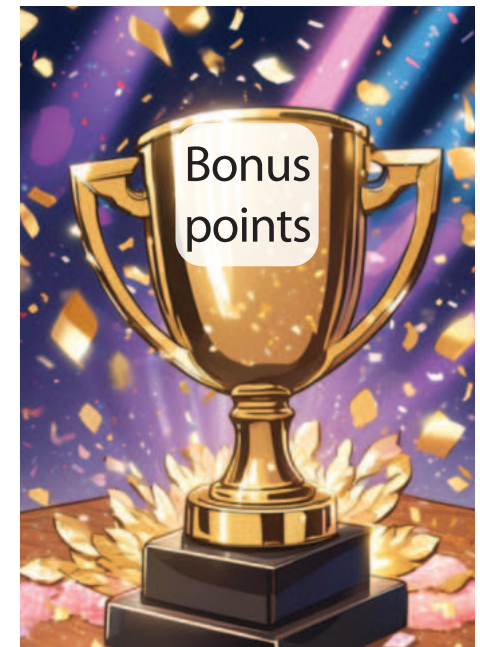
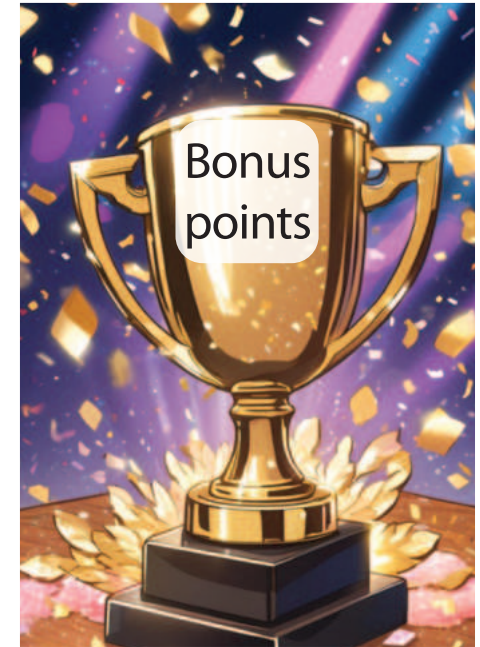
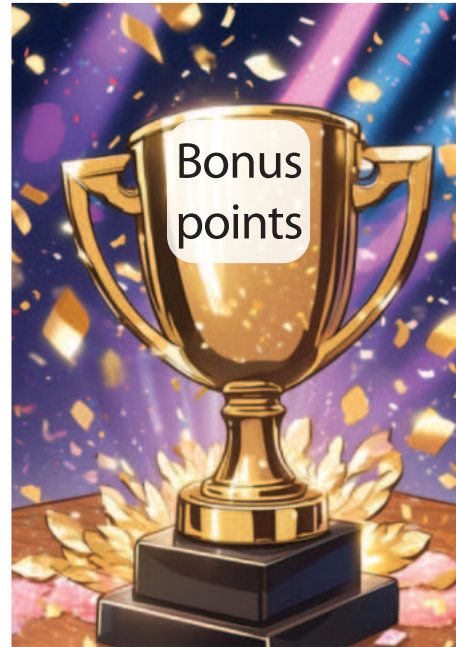
Is it magic?

Gain Points based on the amount of cards from the Psychology and Physics fields:

0-4: 0
5-7: 6
8-10: 7
11-13: 8
14+: 10

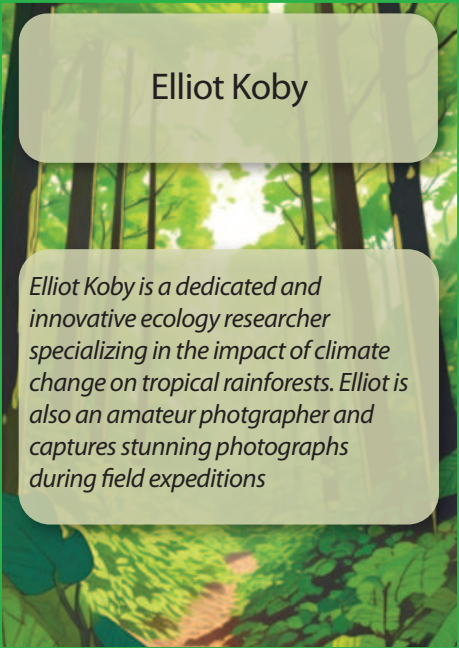
Examine how optical principles affect psychological perception.





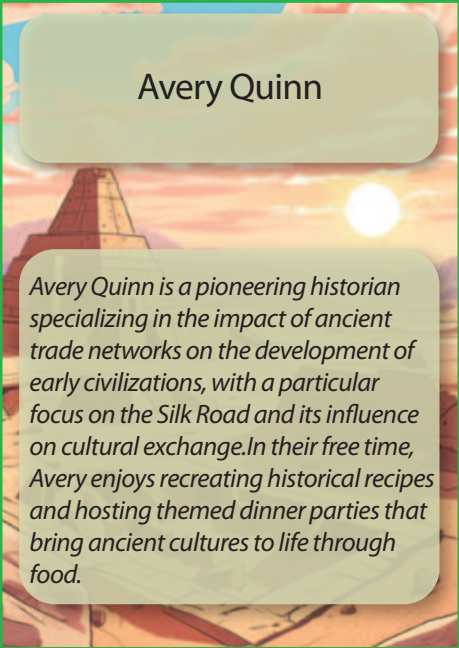






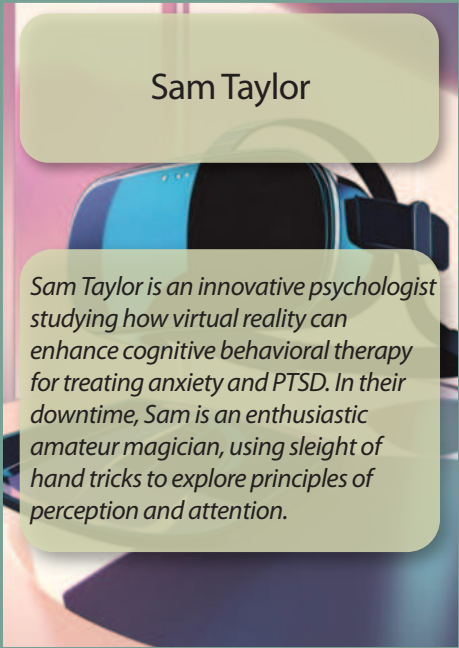
Elliot Koby

Elliot Koby is a dedicated and innovative ecology researcher specializing in the impact of climate change on tropical rainforests. Elliot is also an amateur photographer and captures stunning photographs during field expeditions




Avery Quinn

Avery Quinn is a pioneering historian specializing in the impact of ancient trade networks on the development of early civilizations, with a particular focus on the Silk Road and its influence on cultural exchange. In their free time, Avery enjoys recreating historical recipes and hosting themed dinner parties that bring ancient cultures to life through food.




Sam Taylor

Sam Taylor is an innovative psychologist studying how virtual reality can enhance cognitive behavioral therapy for treating anxiety and PTSD. In their downtime, Sam is an enthusiastic amateur magician, using sleight of hand tricks to explore principles of perception and attention.



Alex Rivera

Alex Rivera is a trailblazing environmental engineer who revolutionized urban sustainability with their design of solar-powered smart streetlights. In their spare time, Alex enjoys rock climbing and experimenting with DIY solar projects.



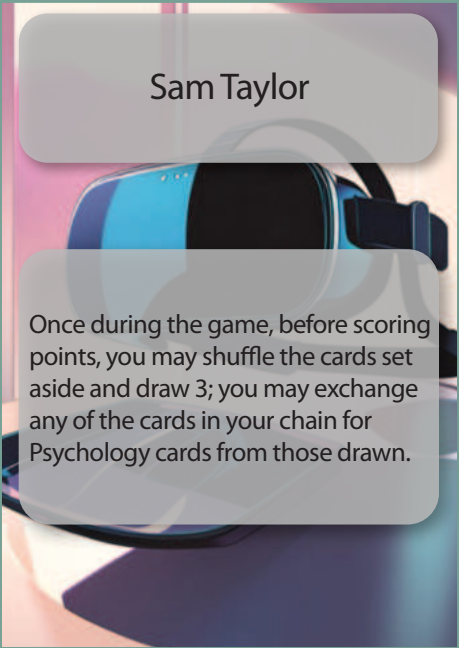
Riley Morgan

Riley Morgan is a physicist researching dark matter interactions to unlock the mysteries of the universe and improve our understanding of cosmic forces. Riley is an astronomy enthusiast who spends weekends star gazing with their custom built telescope.



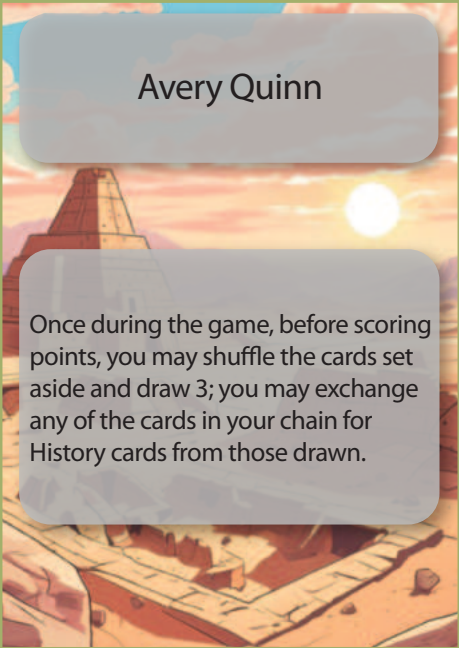
Jamie Reed

Jamie Reed is a cutting-edge medical scientist researching innovative therapies for autoimmune diseases using advanced stem cell techniques. Outside the lab, Jamie is a passionate beekeeper, enjoying the challenges and rewards of maintaining their own beehives and harvesting honey.



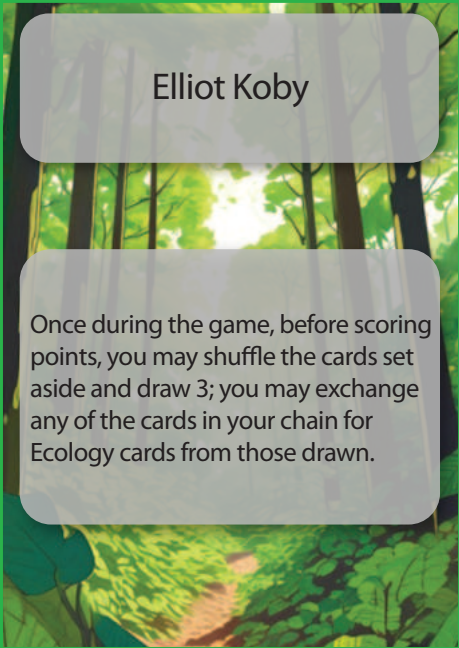
Sam Taylor

Once during the game, before scoring points, you may shuffle the cards set aside and draw 3; you may exchange any of the cards in your chain for Psychology cards from those drawn.



Avery Quinn

Once during the game, before scoring points, you may shuffle the cards set aside and draw 3; you may exchange any of the cards in your chain for History cards from those drawn.



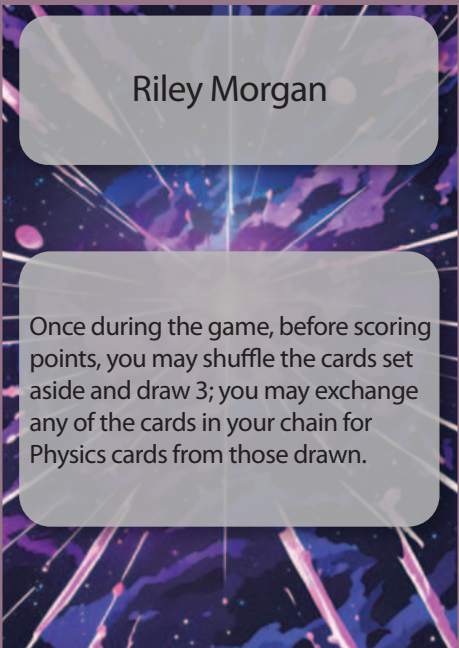
Elliot Koby

Once during the game, before scoring points, you may shuffle the cards set aside and draw 3; you may exchange any of the cards in your chain for Ecology cards from those drawn.



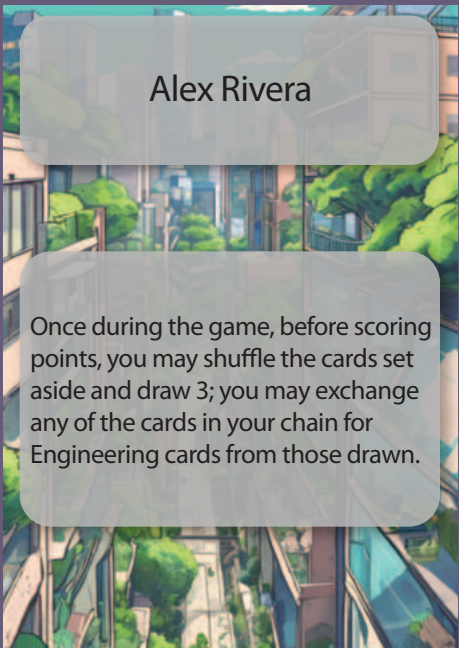
Jamie Reed

Once during the game, before scoring points, you may shuffle the cards set aside and draw 3; you may exchange any of the cards in your chain for Medical cards from those drawn.



Riley Morgan

Once during the game, before scoring points, you may shuffle the cards set aside and draw 3; you may exchange any of the cards in your chain for Physics cards from those drawn.



Alex Rivera

Once during the game, before scoring points, you may shuffle the cards set aside and draw 3; you may exchange any of the cards in your chain for Engineering cards from those drawn.

"Your research questions gains a lot of interest among research fellows - promising cooperations emerge."

Roll a 6-sided die twice (reroll equals). If you have more cards on either corresponding field (1.Physics, 2.Psychology, 3.History, 4.Ecology, 5.Medicine, 6.Engineering) than both adjacent players, gain 5 points.

"Your question has been answered in other papers."


Roll a 6-sided Die. On 6, nothing happens. Lose 2 points if your chain starts with:

1: , 2: , 3: , 4: , 5: 

"Your hypothesis is supported by other papers."

Randomly take one card from those set aside, and choose whether to either add it to your chain, or return it to the pile of unused cards. If you choose to add it, chose another card in the chain and return it to the pile.

"Your hypothesis was rejected by other papers."

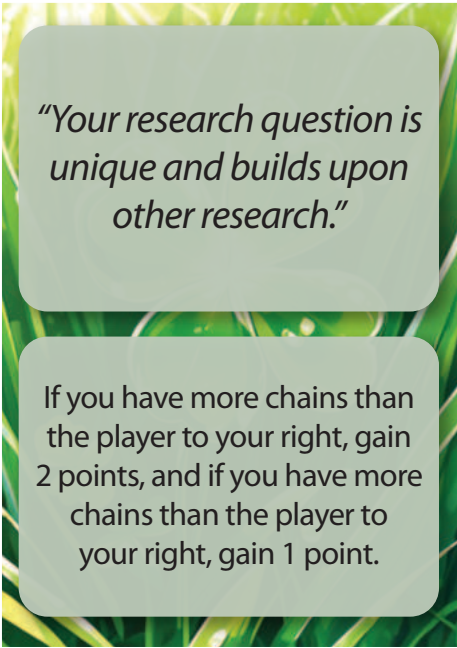
If you have used the  on your chain, lose 1 point.

"Your research proposal was rejected."

Randomly discard a card from your longest chain. Then, draw a random card from those set aside and re-arrange your chain/s.

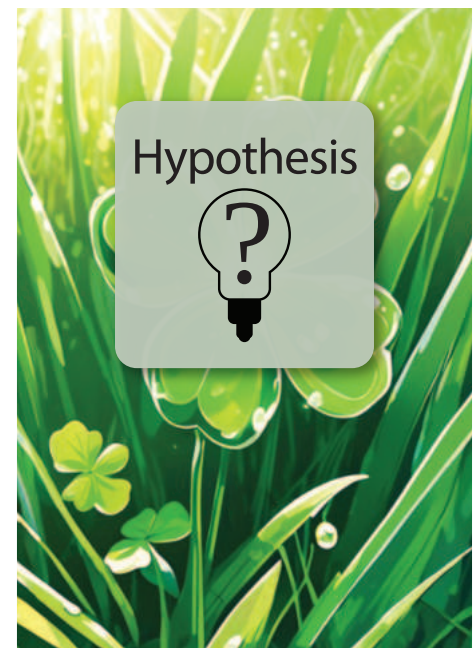
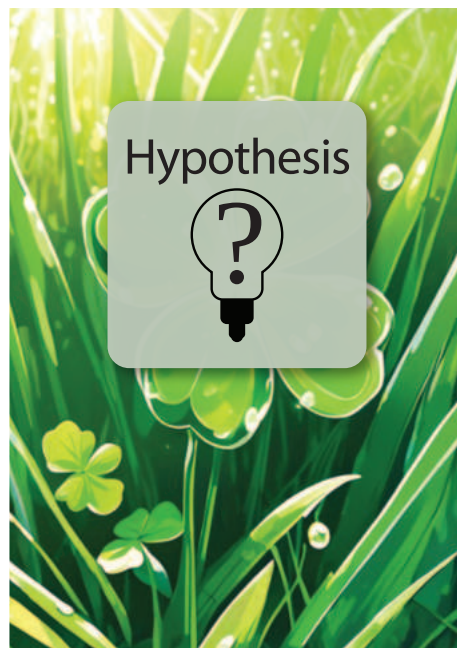
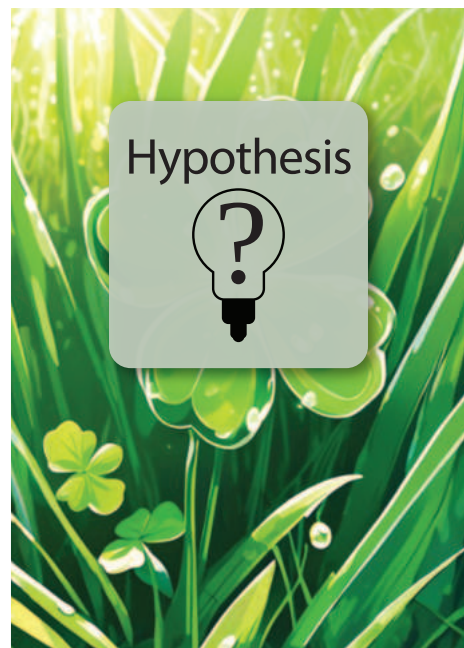
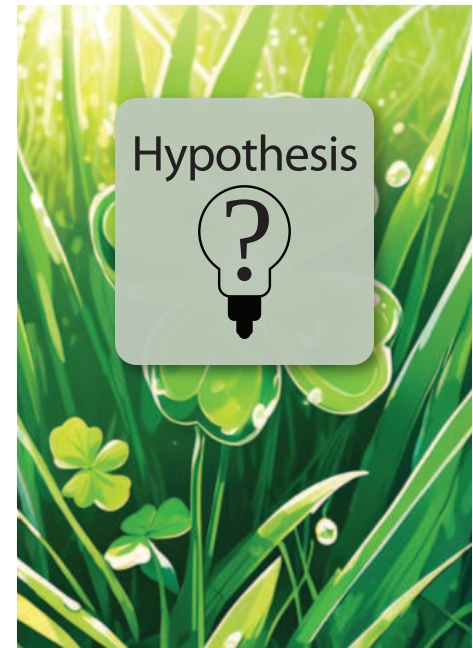
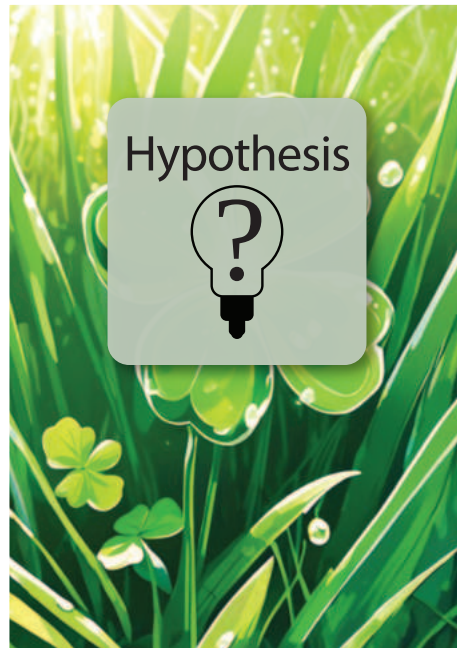
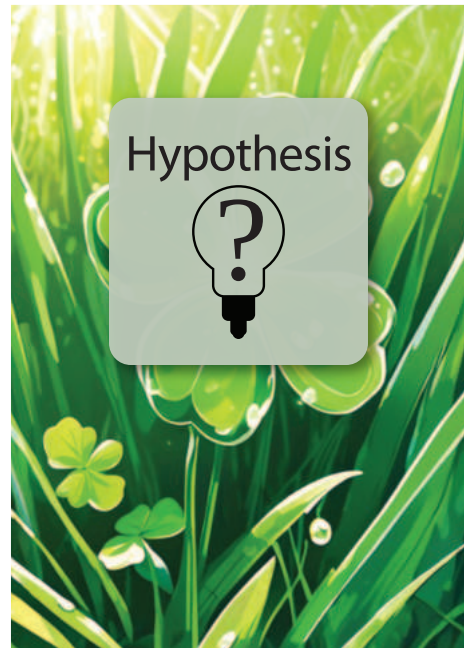
"Your results confirm your hypothesis."

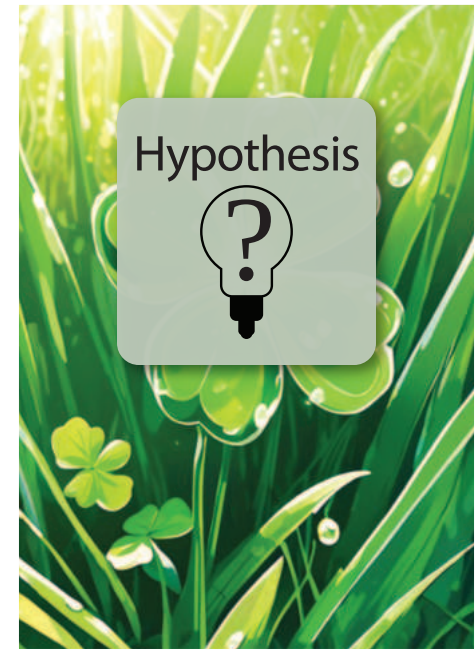
If you have more chains than the player to your right, gain 2 points, and if you have more chains than the player to your left, gain 1 point.



"Your research question is unique and builds upon other research."

If you have more chains than the player to your right, gain 2 points, and if you have more chains than the player to your right, gain 1 point.





"Your results confirm your hypothesis."

Roll a 6-sided die twice (reroll equals). If you have more cards on either corresponding field (1.Physics, 2.Psychology, 3.History, 4.Ecology, 5.Medicine, 6.Engineering) than both adjacent players, gain 5 points.

"Your data make absolutely no sense, you can't find any meaningful pattern."


Roll a 6-sided Die. On 6, nothing happens. Lose 2 points if your chain starts with:

1: , 2: , 3: , 4: , 5: 

"You get additional support from colleagues and are able to collect more data."

Randomly take one card from those set aside, and choose whether to either add it to your chain, or return it to the pile of unused cards. If you choose to add it, chose another card in the chain and return it to the pile.

"A power outage destroyed your lab setup and ruined your experiment."

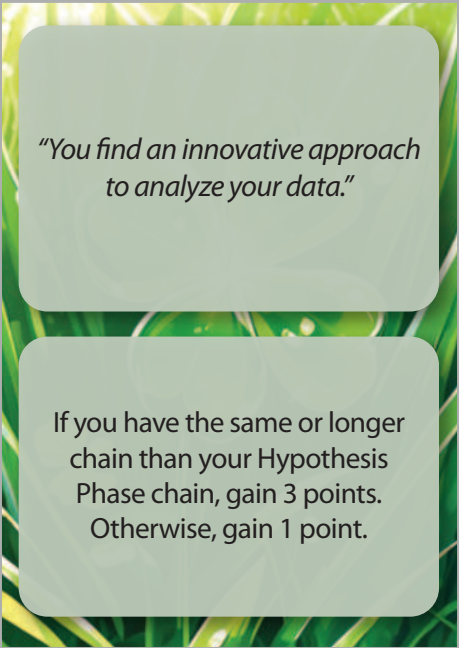
If you have used the  on your chain, lose 1 point.

"Your cooperation partner doesn't analyse the data as promised - you have to find a new partner."

Randomly discard a card from your longest chain. Then, draw a random card from those set aside and re-arrange your chain/s.

"You are able to find a clear pattern in your data."

Roll a 6-sided die: if the result is lower than the number of different main symbols in your longest chain, gain 3 points. Otherwise, gain 1 point.



*"You find an innovative approach
to analyze your data."*

If you have the same or longer
chain than your Hypothesis
Phase chain, gain 3 points.
Otherwise, gain 1 point.









"You make a scientific breakthrough!"

Roll a 6-sided die twice (reroll equals). If you have more cards on either corresponding field (1.Physics, 2.Psychology, 3.History, 4.Ecology, 5.Medicine, 6.Engineering) than both adjacent players, gain 5 points.

"Your results conflict with current research."


Roll a 6-sided Die. On 6, nothing happens.
Lose 2 points if your chain starts with:

1: , 2: , 3: , 4: , 5: 

"Your paper gets a lot of media attention."

Randomly take one card from those set aside, and choose whether to either add it to your chain, or return it to the pile of unused cards. If you choose to add it, chose another card in the chain and return it to the pile.

"Your paper is rejected for publication."

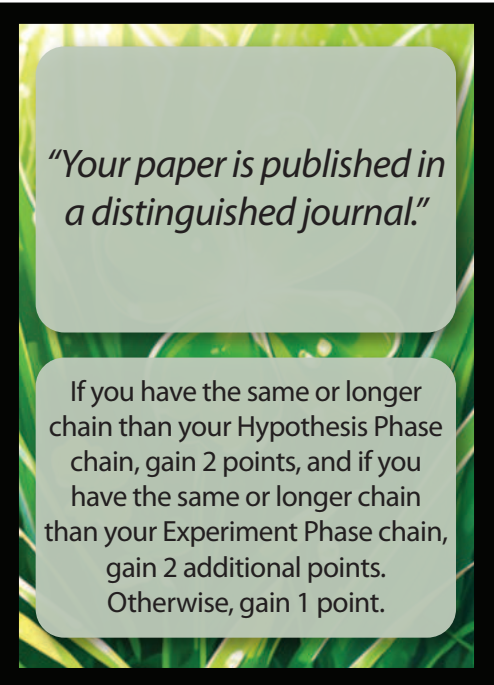
If you have used the  on your chain, lose 1 point.

"There is nothing new in your results."

Randomly discard a card from your longest chain. Then, draw a random card from those set aside and re-arrange your chain/s.

"Your publication attracted new cooperation partners who want to start a follow-up project with you."

Roll a 6-sided die 4 times (discard equals).Gain 1 point for each rolled field (Physics, Psychology, History, Ecology, Medicine, Engineering)from which you have at least one card in your chain.



*"Your paper is published in
a distinguished journal."*

If you have the same or longer
chain than your Hypothesis Phase
chain, gain 2 points, and if you
have the same or longer chain
than your Experiment Phase chain,
gain 2 additional points.
Otherwise, gain 1 point.

Conclusion



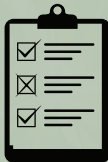
Conclusion



Conclusion



Conclusion



Conclusion



Conclusion



