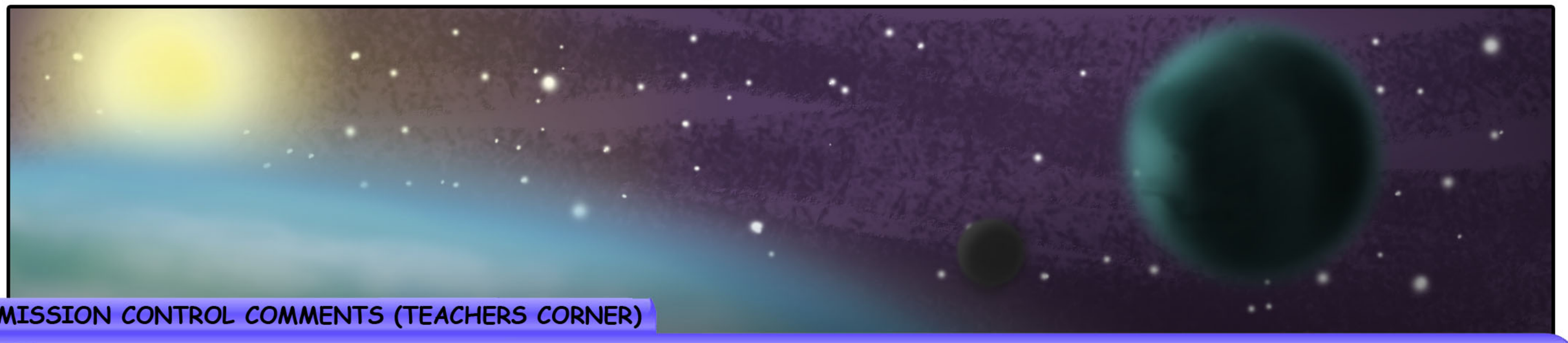
Mission 010: Life in Space?!
Life Sciences: Diversity of Life. Biodiversity.
6BC, 6SK, 6MB, 6ON, 6QC, 6NB, 6NS, 6PEI, 6NFLD, 6YK, 6NWT

StarAcer™ ACADEMY

Welcome Stellar Teacher! Let's Grow Some Astronauts.

LIFE IN SPACE?!



MISSION CONTROL COMMENTS (TEACHERS CORNER)

CURRICULUM OUTCOMES

Diversity of Life	Students will be able to identify the five different kingdoms.
	Students will be able to identify characteristics of each kingdom.
	Students will demonstrate an understanding of the specific adaptations that exists within each kingdom.
	Students will be able to identify characteristics common to all forms of life.

TIME FLOW

A Make a Plan	minimum 3 x 45 minute lessons (discussion to understand problem, start to fill out a scientific method outline)
B Get it Done	minimum 4 x 45 minute lessons (set up the experiment and record the observations)
C The Big Bang - Making Connections	minimum 2 x 45 minute lessons (students can work individually and then share as a class)

EXTRA RESOURCES

- StarAcers.com has links for your mission!
- A scientific report outline in the Common Documents
- Student and teacher rubrics

SUGGESTED RESOURCES

- Books, internet sites on the five kingdoms
- Professional speakers
- Video equiment and computer lab
- Examples of newspaper layout and videos

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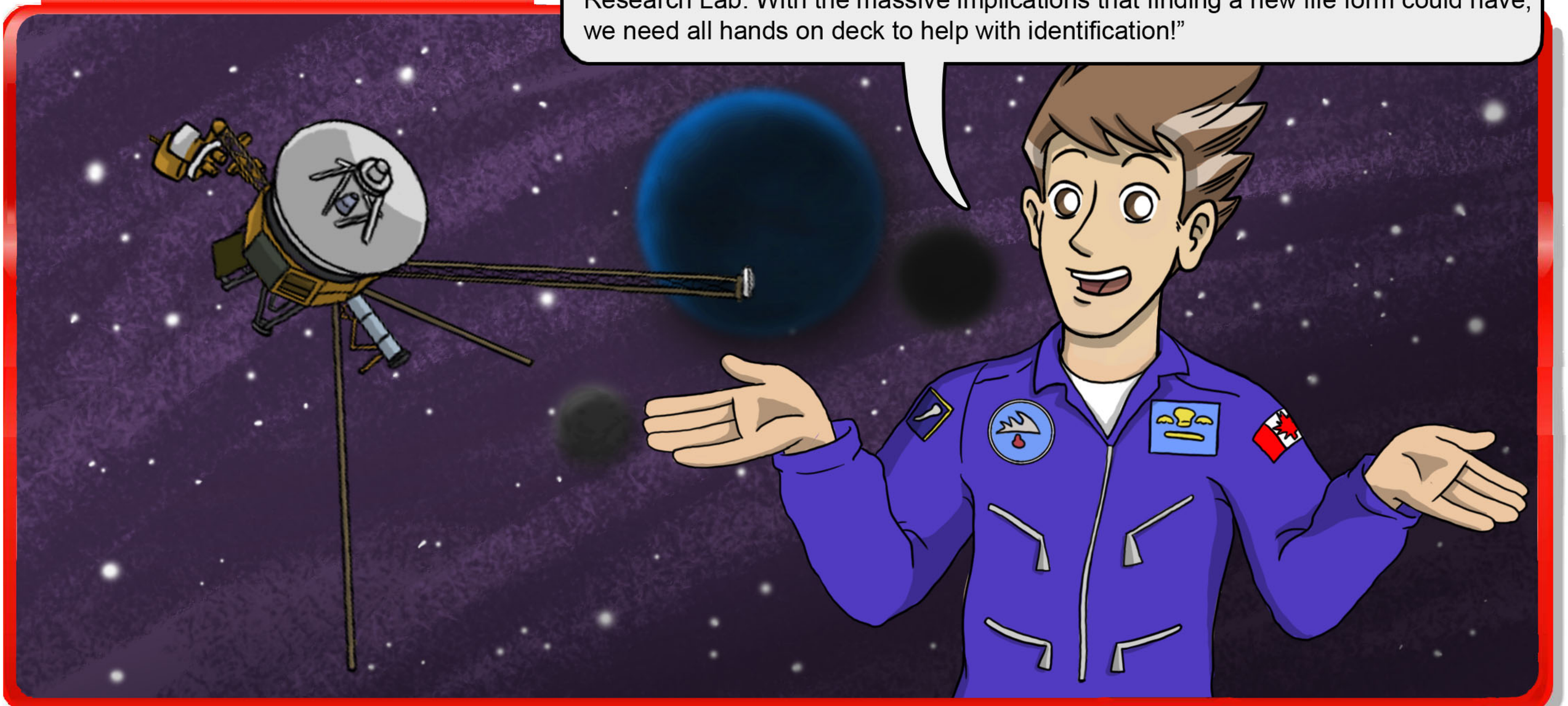
LIFE IN SPACE?!

As we continue to send out robotic rovers into space, their mission is to explore and collect samples from various planetary bodies for different types of information. This information is used to help further human understanding of our world and universe. A key type of evidence sought by humans is that life could exist in some other place.

PART 1 - THE BRIEFING ROOM



PART 2 - THE POCKET GUIDE

Vocabulary

Kingdoms of Life
Reptiles
Vertebrate
Mammals
Protista
Invertebrate
Plantae
Multicellular
Birds
Fish
Unicellular
Features
Organisim
Monera
Amphibians
Fungi
Cells
Animalia

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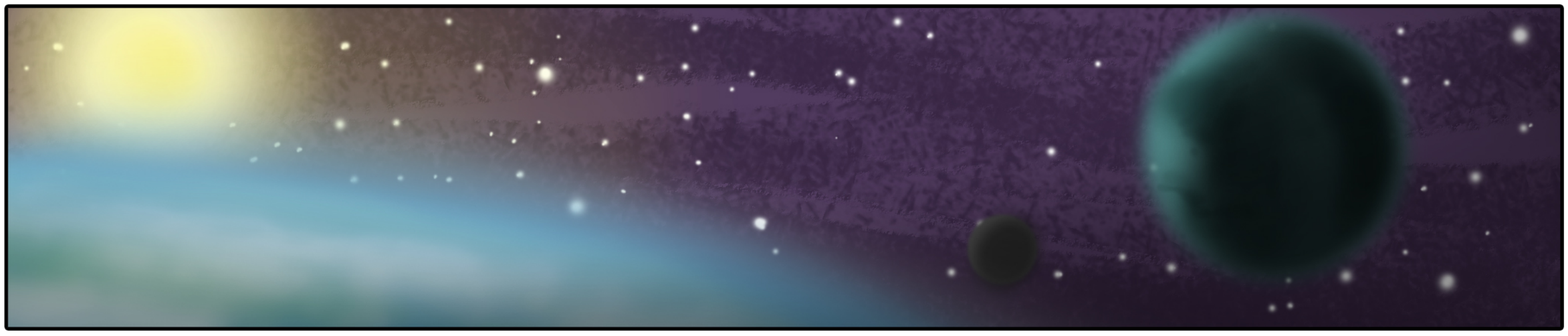


A. PART 3 - MAKE A PLAN

Your mission will be to educate yourself and your fellow StarAcers on the different classifications of life prior to the examining of samples returned from space. Groups of StarAcers will be assigned one of the 5 kingdoms of life to research. Then, each StarAcer group will present and teach their fellow classmates about their kingdom.

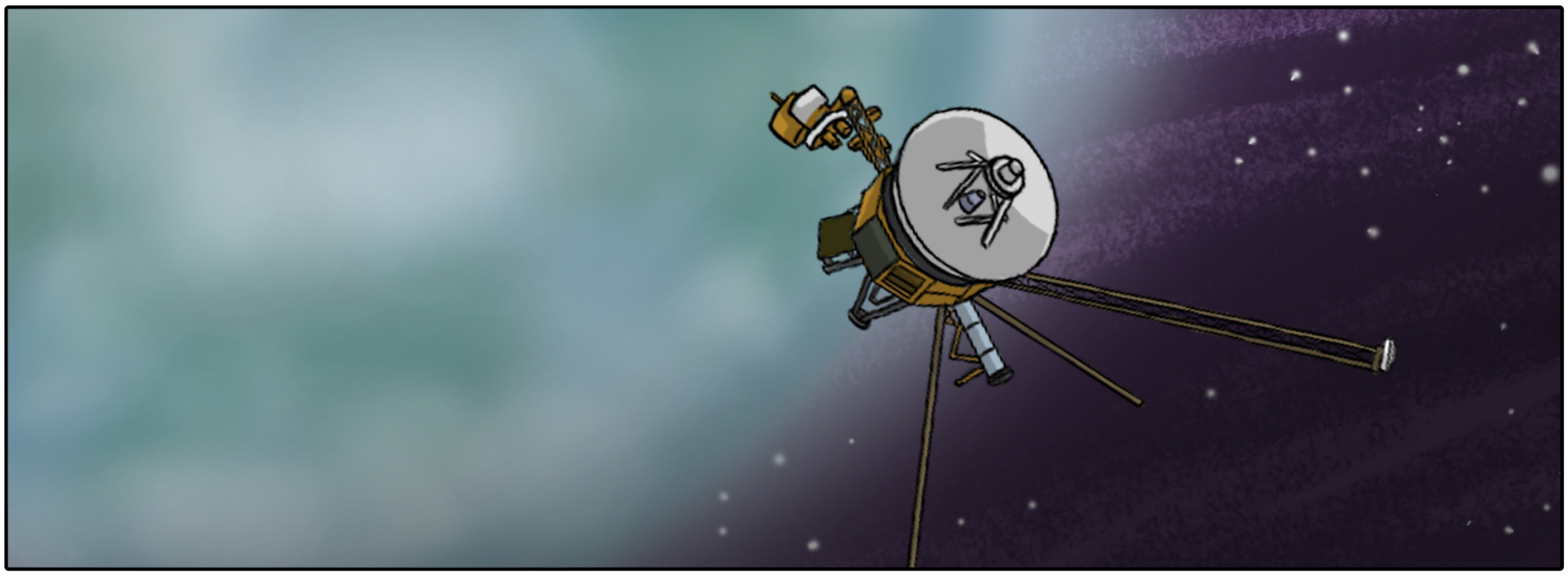
B. PART 4 - GET IT DONE

(CONDUCT YOUR RESEARCH AND CREATE A VIDEO PRESENTATION/NEWSPAPER ARTICLE)

It is now time to research your particular kingdom and provide the following:

- The name of your kingdom
- Key characteristics with explanations
- Examples (pictures/diagrams)

Use all the information that you have now gathered to create a video presenation or a newspaper with various articles to teach future StarAcer candidates on the importance of kingdom classification.

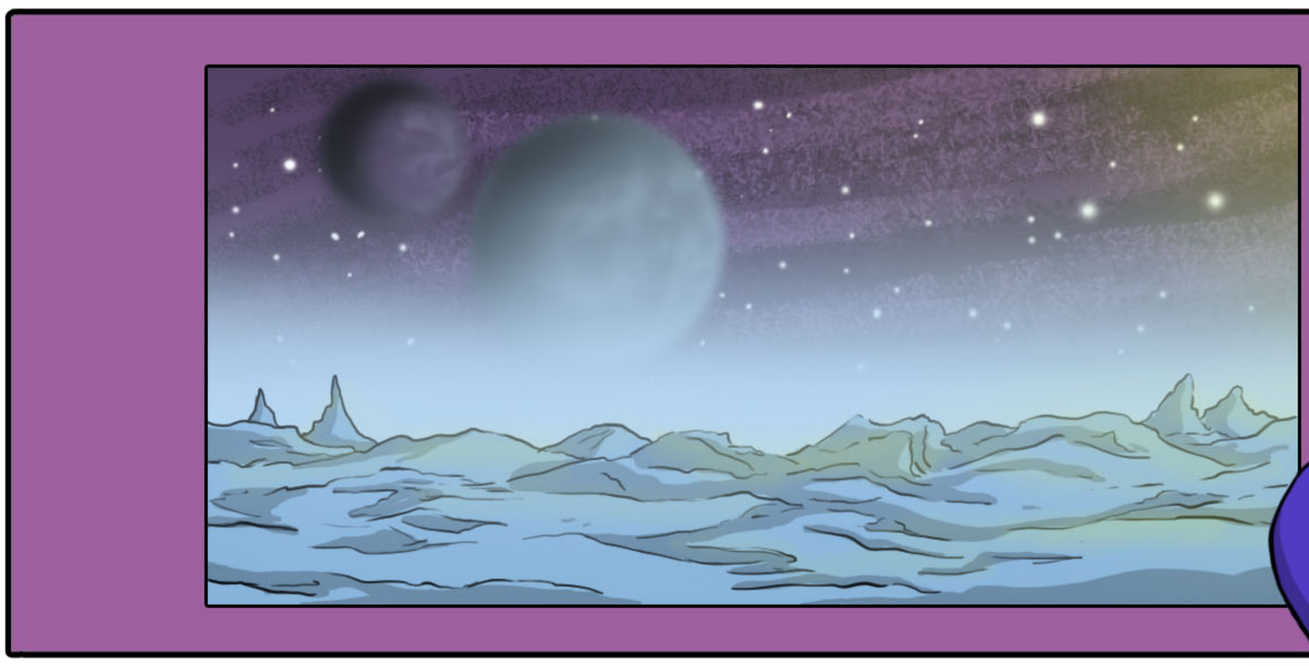


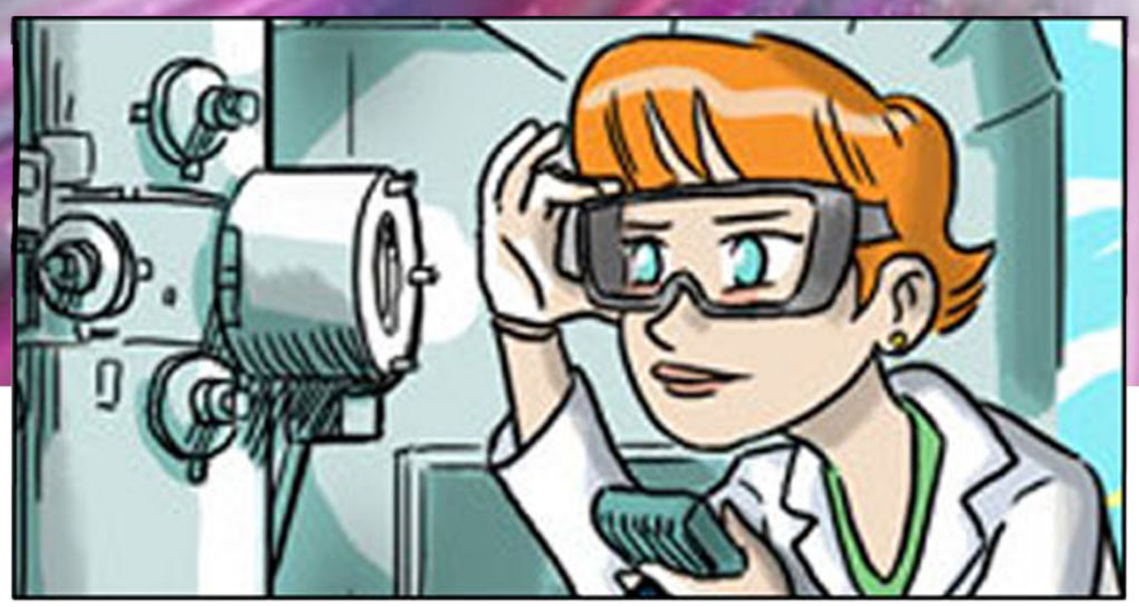
LIFE IN SPACE?!

C. THE BIG BANG - MAKING CONNECTIONS

Having now reviewed all the presentations and newspaper articles, what are the common threads that run among the various kingdoms? What is the most likely kingdom of life space explorers are to find?

In your opinion, what are the reasons why?





DO YOU MEASURE UP?

Get a rubric from Mission Control. How do you measure up based on the work that you have just completed in Mission 010?

WANT MORE ADVENTURE?

Want a challenge? Try answering these questions:

- What explorations has NASA undertaken to find evidence of life?
- Create an example of a life form that you think might be found- what does it look like, what adaptations does it have?

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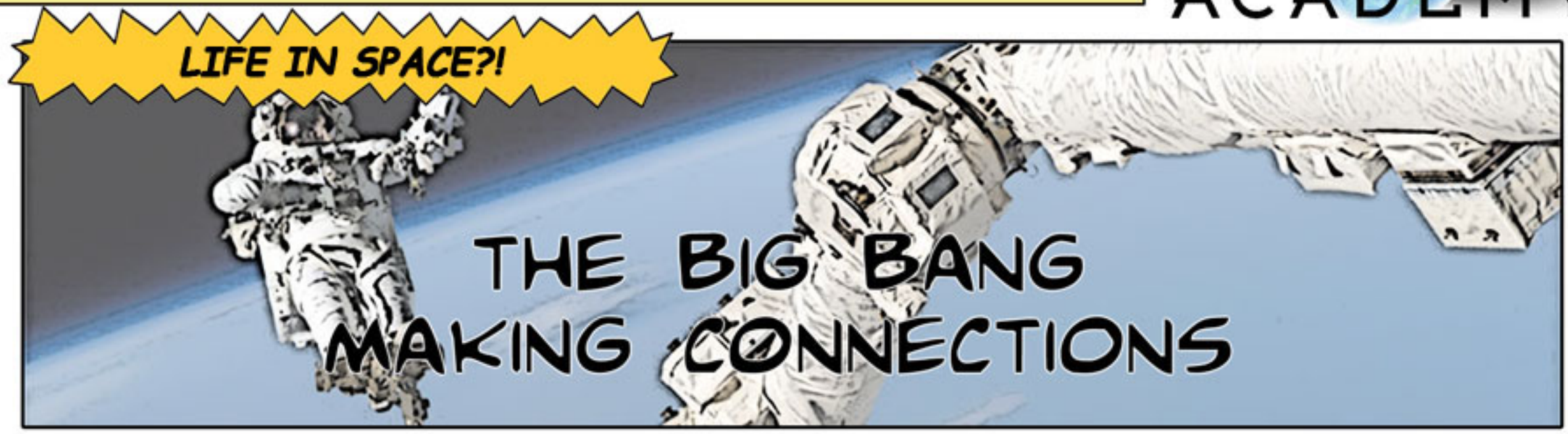

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