

Activity 9:

Animal Care Checklist

Mission: Animals need our care and kindness.



Check the things animals need:

☐

Food

☐

Water

☐

Love

☐

Shelter

☐

Exercise



Write one way you can help animals:

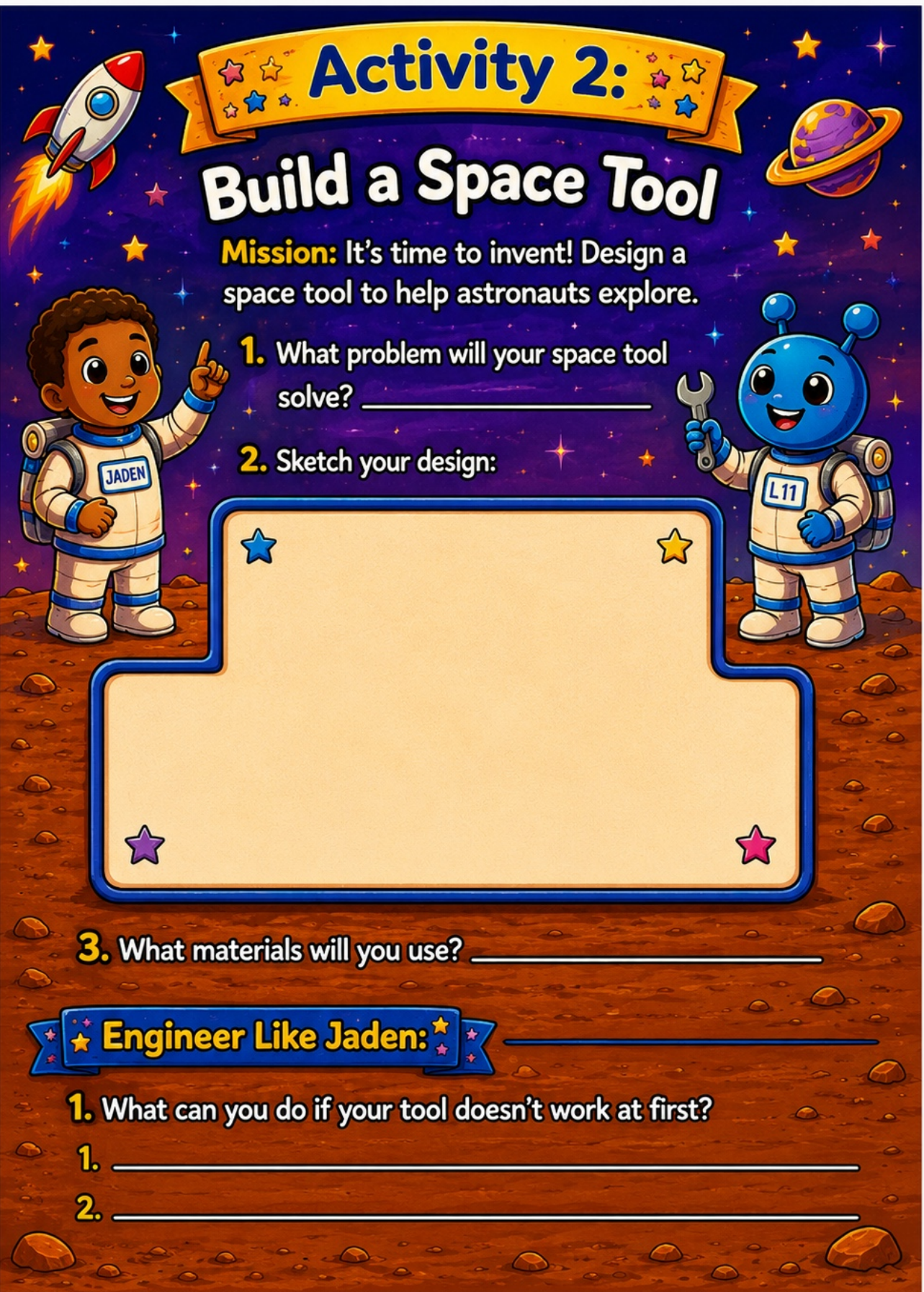
Activity 7:

Spot the 10 Differences

Mission: Find 10 differences between the two pictures below.



Circle all 10 differences!



Activity 2:

Build a Space Tool

Mission: It's time to invent! Design a space tool to help astronauts explore.

1. What problem will your space tool solve? _____

2. Sketch your design:

Star-shaped drawing area with four stars (blue, yellow, purple, pink) in the corners.

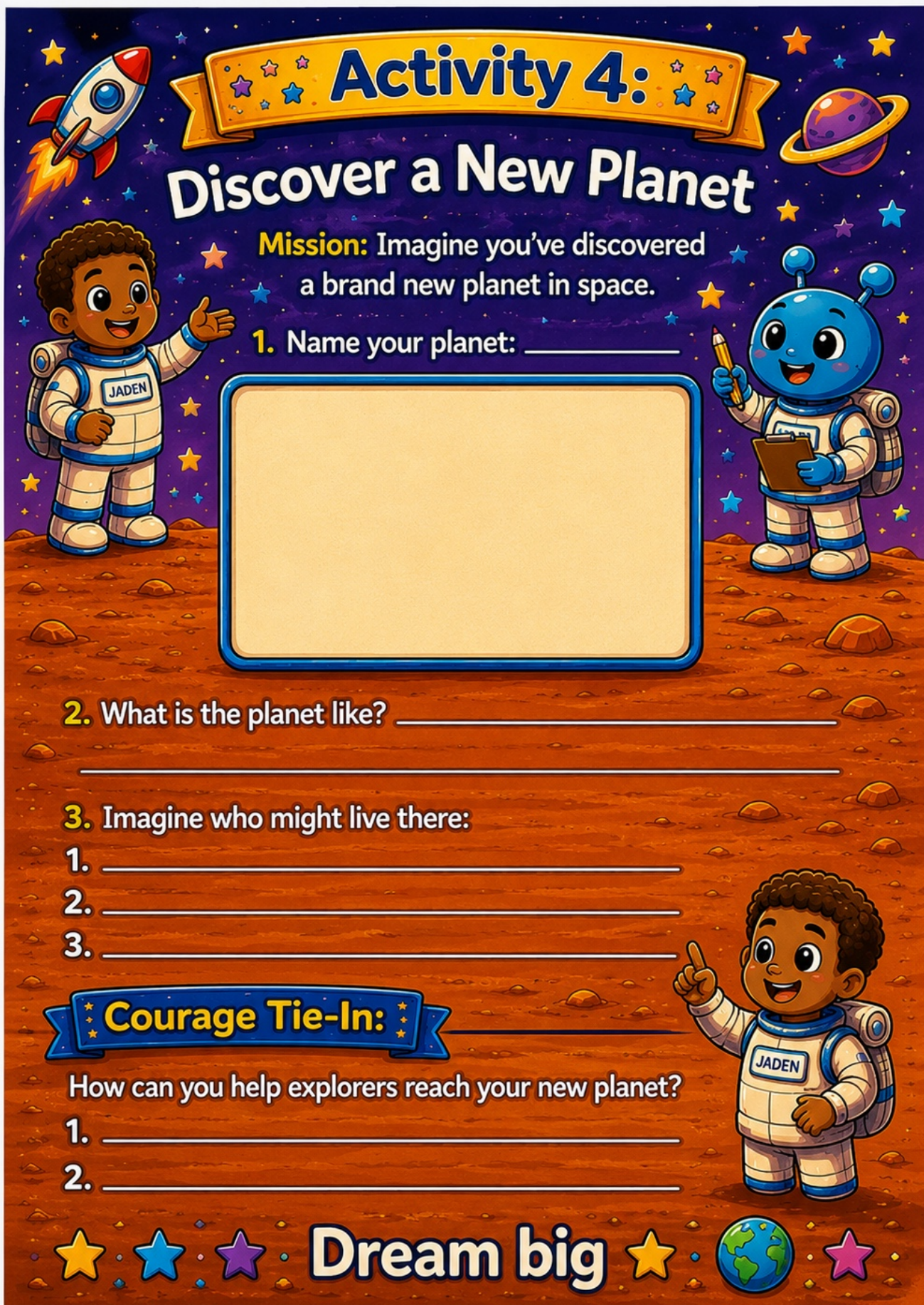
3. What materials will you use? _____

★ **Engineer Like Jaden:** ★

1. What can you do if your tool doesn't work at first?

1. _____

2. _____



Activity 4: Discover a New Planet

Mission: Imagine you've discovered
a brand new planet in space.

1. Name your planet: _____

2. What is the planet like? _____

3. Imagine who might live there:

1. _____

2. _____

3. _____

Courage Tie-In:

How can you help explorers reach your new planet?

1. _____

2. _____

★ ★ ★ Dream big ★ ★ ★



Activity 6:



Create Your Own Magic Recipe

Mission: Write a recipe for something magical!

Recipe Name: _____

Ingredients:

- ★ _____
- ★ _____
- ★ _____
- ★ _____
- ★ _____
- ★ _____

Steps:

1. _____
2. _____
3. _____
4. _____
5. _____



Activity 10:

Pictograph: Magic Ingredients

Mission: Look at the pictograph and answer the questions.



Key:
★ = 1 item



Ingredient	Number of Items
 Star Dust	★ ★ ★ ★ ★
 Moonberries	★ ★ ★
 Sparkle Sugar	★ ★ ★ ★ ★ ★ ★
 Magic Petals	★ ★ ★ ★
 Glow Drops	★ ★ ★ ★ ★ ★

- Which ingredient has the most items? _____
- Which ingredient has the least items? _____
- How many items are Star Dust and Moonberries together? _____
- How many more Glow Drops are there than Magic Petals? _____
- How many items are in all? _____

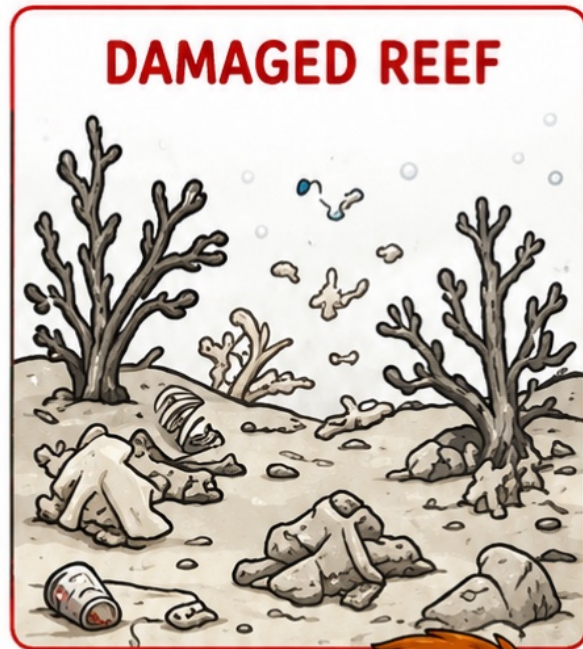
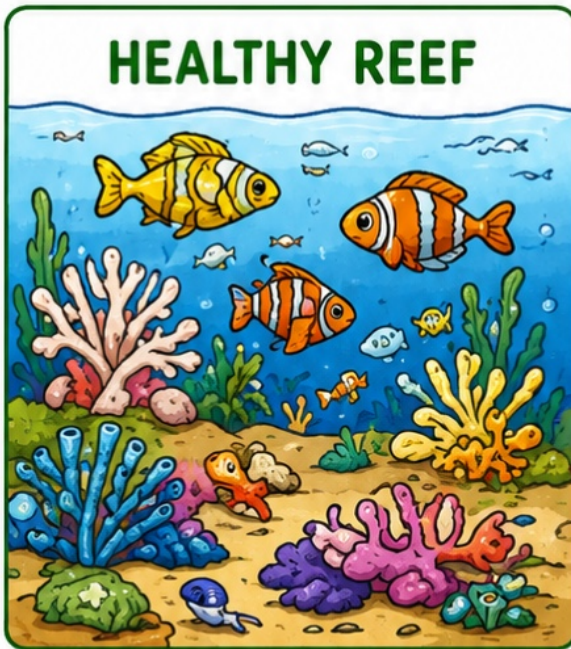


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STEM SCIENCE LAB
THE SECRET OF THE GLOWING SEA

SAVE THE FORGOTTEN REEF

Study the reef, remove pollution,
and create a plan to protect it!



OUR PLAN:

- ☐ Reduce pollution
- ☐ Protect marine life
- ☐ Educate others
- ☐ Clean our beaches
- ☐ Reuse and recycle



DREAM EXPLORER PLEDGE:

"I will be curious, kind, and help
protect our oceans."



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STEM SCIENCE LAB
THE SECRET OF THE GLOWING SEA

MAPPING THE GLOWING CURRENTS

Help Owen track the glowing ocean currents using maps and data.



FUN FACT: Ocean currents move water around the world.



Teamwork Changes Everything!

Great things happen
when we work together!
Engineers, scientists, and
community leaders solve
problems as a team.

STEM Focus:

Engineering &
Collaboration 



Many Hands, Many Ideas!

Everyone has a role. What are some jobs people do when working on a project together?

PLANNER



Plans the steps
and ideas.

BUILDER



Builds and
constructs.

RESEARCHER



Finds information
and facts.

COMMUNICATOR



Shares ideas and
keeps everyone
informed.

HELPER



Supports and
encourages
everyone.



Our Team Strengths

What are our team's superpowers?
Check all that apply.

- ☐ We listen to each other. 
- ☐ We share ideas. 
- ☐ We solve problems together. 
- ☐ We include everyone. 
- ☐ We don't give up! 
- ☐ We celebrate each other. 
- ☐ Something else: _____



STEM Challenge: Build a Better Community!

Design something that your team could build to make
Riverdale an even better place.

Draw your idea below and label it.



Let's Reflect!

What was your favorite
part of working together?



What was a challenge
and how did you solve it?



How did teamwork
make a difference?



Notice • Understand • Act Together • Unlock Change



The Dream Explorers Series — Maya and the Golden Key 

Why Are the Flowers Drooping?

The Dream Explorers Series

Maya and the Golden Key — STEM Science Lab



Plants need certain things to grow strong and healthy.
Let's observe and compare!

HEALTHY FLOWER



Bright colors

Upright petals

Strong stem

Green leaves

WILTED FLOWER



Faded colors

Drooping petals

Weak stem

Yellow or limp leaves



Observe:

1. What do you notice about the colors?

2. What do you notice about the stems?

3. What do you notice about the leaves?

4. What do you think the plants need?

Plants Need...



Sunlight



Water



Air



Nutrients
(from soil)



Think:

What happens when a plant doesn't get what it needs?



Mini Investigation!

Plan a simple experiment to test what plants need.

What will you test?

(Example: Water)

What will you change?

(Example: Give one plant water and not the other.)

What will you keep the same?

(Example: Same sunlight)

What do you predict will happen?

(Make a guess!)



Notice • Understand • Act Together • Unlock Change



The Dream Explorers Series — Maya and the Golden Key