

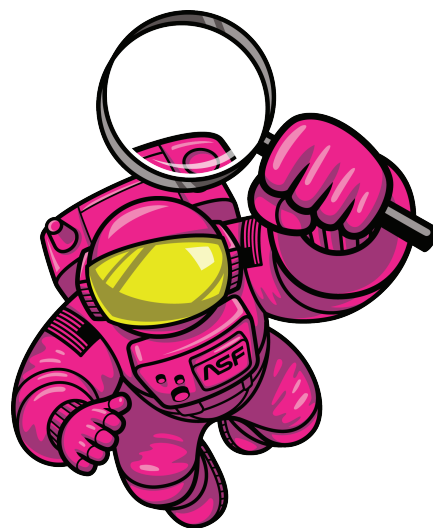
To be an explorer doesn't always mean going to new places. Sometimes, exploration can happen all around you. The Science ATL Passport is a guide for kids to be scientific explorers without ever needing to leave Atlanta. There are always new discoveries to unearth!

HOW DOES IT WORK?

Using our senses (sight, smell, touch, hearing and taste) to frame our exploration, the passport will engage young scientists in expeditions close to home. There's space to record notes, drawings, and questions. Record 14 different explorations with your young scientist(s) and return the Passport to Science ATL headquarters for a prize (check online for more information).

We've provided ideas for different sense-related explorations, and also included several blank graphed pages. These are for young scientists to use in any way that helps them be explorers! Some ideas...

- Make an experiment plan
- List out materials
- Make a prediction (or hypothesis) about the outcome of the experiment
- Drawings of observations
- Results or reflections about what happened



Humans are naturally curious, and there's no reason we can't all be explorers and scientists to answer the questions that we have about the world around us. We hope this Passport will help guide you and your young scientist to wonder and learn about the world.

If your scientist(s) prefers to think outside the box and feels limited by the design of the Passport, encourage them to follow their curiosity wherever it may (safely) lead. We hope they will still record observations or results of their unique journeys. But, if they are not interested in doing any documentation or reflection in the empty spaces, that's OK too! They won't be eligible for a prize, but will still experience lots of science!

GETTING STARTED

Flip through the passport - read the first few pages and pick a sense to start with. No need to go in order! We've provided a list of experiments/activities to get you started. Talk to your young scientist(s) and see if there's anything that interests them. Then begin the journey, using the scientific method to steer the exploration. See our examples on the following page!

Make an Observation


Did any of the suggestions pique your curiosity? Is there anything else about your own experiences with one of the senses always baffled or amazed you?

Look for Science
IT IS ALL AROUND YOU

What? Optical Illusions
Where? Clarkston, Georgia
When? May 2, 2020

TELL US MORE USING WORDS AND/OR PICTURES!

Sometimes 2 shapes next to each other look like they are different, but they aren't.



What question(s) do you have?
How long are the white dashes on highways? When we're driving, they look short.

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Ask a Question


Come up with a specific question you want to answer or problem you want to solve.

Listen for Science
IT IS ALL AROUND YOU

What? Sound and Space
Where? Summerhill, Atlanta
When? May 22, 2020

TELL US MORE USING WORDS AND/OR PICTURES!

Is there sound in space?
How do people on earth communicate with astronauts?



What question(s) do you have?
Who were the first scientists to start to study space? What kinds of tools did they use?

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Make a Hypothesis & Design an Experiment.

What do you think will be the result? What are you going to do to find the answer to your question?

Smell Science
IT IS ALL AROUND YOU

What? Smell test with my siblings
Where? Alpharetta, Georgia
When? June 5, 2020

TELL US MORE USING WORDS AND/OR PICTURES!

1 Garlic Grass
Lemon Juice
Salt

2 Apple Tree Bark
Pepper
Maple Syrup


Prediction: If I add grass to Mix #1, then no one will notice, but if I add tree bark to #2, they will smell it.

What question(s) do you have?
What is really doing the smelling? What connects my nose and my brain?

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Analyze Data and Draw a Conclusion

Look at your results and decide what you've learned. Were you able to answer your question?



What? Shoe Box Guitar
Where? Kirkwood, Atlanta
When? June 12, 2020

TELL US MORE USING WORDS AND/OR PICTURES!

The thinnest rubber band made the sound with the highest pitch. And when I plucked any of the strings, I felt the whole tissue box vibrate. Also, if I held one of the rubber bands down with one hand and plucked the same string, the sound was even higher.

What question(s) do you have?
What instruments make music with vibrations? What are the vibrations created when someone blows into a trumpet?

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Experience Science in Atlanta



Plant identification with
What? iNaturalist
Where? Cascade Springs Nature Preserve
When? June 15, 2020

TELL US MORE USING WORDS AND/OR PICTURES!

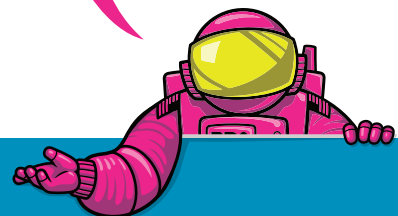
Big Leaf Magnolia - giant leaf clusters
Butter weed - little yellow flowers
Buckeye - red flowers

What question(s) do you have?
How does iNaturalist "read" the pictures I upload to give me the name of the species?

SCIENCE ATL PASSPORT 29

For more resources and information on how to turn your passport in for a prize, visit us online at <https://scienceatl.org/passport>

Traducción al Español disponible aquí:
<https://ScienceATL.org/passport>



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