

# playbook

nature  
biome

# Color theory with Dr. Quacken

004

## Let the experiments begin

Mixing, matching, analyzing, and all other kinds of scientific activities with colors await! The famous (but fictional) scientist has provided helpful notes on each experiment, but there's a bit of Dr. Quacken in all of us, so your scientific methods might differ from those in this playbook. That's totally fine — but our advice is here if you need it.

**Just like any other duck scientist, Dr. Quacken thinks that science is for everyone. You just have to be curious enough. After all, curiosity is only dangerous for cats. And remember, there are no bad experiments or wrong results — you're free to do whatever you want. For great science!**



Scan the QR code on the back cover to access the digital version of this playbook.

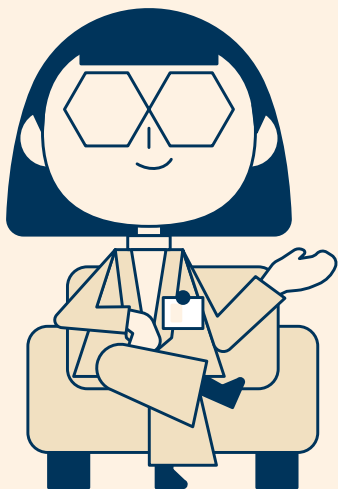
age

3-6



# Warnings

Every playoddity kit is designed as a children's experience that is guided by an adult. All the described activities require adult supervision. Safety instructions for each item in the kit can be found on the item's individual packaging.




**WARNING!**  
**Choking hazard:**  
**Small parts**  
Not for children  
under 3 years

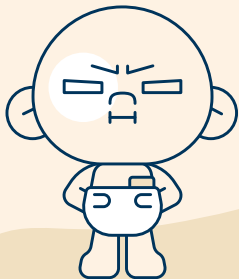


**Adult supervision required**





Hi, this is The Voice speaking. I'd like to remind you that the most important part of the playoddity experience is the child or children. Without them, you'll just be an adult playing games to avoid responsibilities. So put your phone away, and follow the instructions in this playbook for having a great time! The activities also work without the playbook, if you have your own ideas, but we suggest you have a look at ours first.



Without playbook



With playbook

# Unboxing

**This mobile laboratory is Dr. Quacken's masterpiece. Open it carefully — after all, it's very sensitive scientific equipment. Mix, dilute, combine, turn on, soak — and have fun! Take pictures, and share with #playoddity.**



Each item in the kit has a colored sticker:

- Green sticker — item can be used by children and adults
- Red sticker — item should be used by adults only

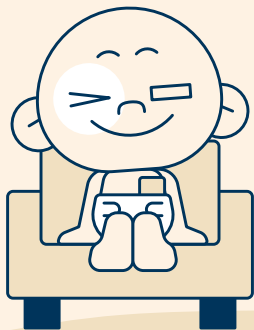
If any items on the list are missing, or you have problems with any of the products, please get in touch.

# Contents of this kit

- **01. Dr. Quacken toy**  
The genius of QUACKtum physics and everything else besides.
- **02. Bath bombs**  
They go PSHHHHH!
- **03. Bath toys**  
A whole team of quack-busters!
- **04. Floating alphabet**  
Bathtime from A to Z!
- **05. Food colors**  
Safe, colorful, and fun!
- **06. Stickers**  
QUACKtastic!
- **07. Scented candle**  
Smells like science spirit!
- **08. Safety goggles**  
Science demands no sacrifices.
- **09. Lab coat**  
Let's do science in style!
- **10. Underwater LED light**  
For some night swimming.
- **11. Glowing bracelets**  
Advanced technology that looks like magic.
- **12. Bath sponge**  
Clean science is the best science.
- **13. Bath salts**  
Both parents and children are invited to test these.
- **14. Color mixing paddles**  
Shine a light on them, and watch the colors change and blend.
- **15. Color wheel**  
The mystery of colors is finally revealed!

# Notes and ideas

As you start doing the experiments, remember — **no discovery** is also a discovery. The general rule is to have **fun**. Who knows, it's possible you will solve a mystery or even rewrite history ...



These **experiments** require you to sit young researchers in a **bathtub** of warm water. Ready? Good. Proceed!

Make yourself **comfortable**, and make sure your teammates feel **safe** and **confident** — after all, you can't learn well if you're scared, or cold, or trying not to drown.



## Let's drop some B-bombs!

Drop the **red** bath bomb into one end of the **tub** and the **blue** one into the other. We know how they work when used separately, but what happens if they're **mixed together**? Try mixing different colors, and conduct careful observations. This is beauti-quack-ful!

## Go, food colors!

Use several laboratory flasks (plastic cups) of water, and **dissolve** a couple of drops of **food color** in each of them. Now mix the colors. This is how science is done. And you can do it in the **kitchen**!

## Items and combinations

Launch a bomb into the bathtub, and then add a **floating toy** of the same color from the set. Add more toys of **different colors**, and ask the researchers to work out which toys you want them to **fish out**.

## Sorting scientifically

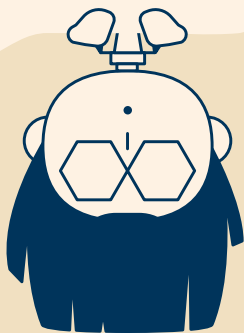
Immerse the toys from the set in the **bathtub**, and add any others that you have (that are suitable and **safe** for water). Don't be a Scrooge — bring out the **best ones**, come on! Ask the young researchers to **rescue** toys of a certain color. Have a plastic bowl ready for them.

## Changing it up a bit

When the science is done, you might want a little fun. Let's **shake things up** a bit! Invite the researchers to clap — or slap — the **surface** of the water. But do it with **science** in mind: one clap with the left hand, another with the right one. And then three times in a row with both hands! Then **repeat** with stomping.

## Where do colors come from?

Play around with the colored **paddles** to find out. Then use the **color wheel**, and try to name all the colors that you make. Did you just say “bubblegum pink?”



Clapping and stomping ...? Well, while this sounds like a lot of fun, I want to remind you not to **fill** the bathtub to the **brim**. Otherwise you'll have a lot of **cleaning up** to do. Oh, these quacking ducks ...



## Limitless science

Darkness can't stop our quest for knowledge. Turn off the room light, turn on the underwater light, and put on the glowing bracelets. Does it look like a disco? Quacksome! Turn up the "Quack Tales Theme!"

Water gave life to everything on Earth. Let's respect it for that and not just use it for washing our hands. Set up your mobile lab in the bathtub whenever you have the chance. Call it the Wet Lab. As Professor Stephen Hawking used to say, "I'm Professor Stephen Hawking!"



## Mystery item

Dr. Quacken is a bit forgetful sometimes, so he left out his notes for one of the items in the mobile lab. Well, it looks like you're going to have to figure it out yourself. Good quack!

# Search terms

 the blackest color	
the rarest color in nature	
what color is the sun	
the most common favorite color	
the royal color	
Eigengrau	

# Question time

? What's your favorite color?  
• Why?

? How do we  
• see colors?

? Why does a rainbow  
• appear in the sky?

? What makes the sky blue during  
• the day and red at sunset?

# Creativity time

We're all familiar with rainbows. But do you know how dogs see a rainbow? It's all in shades of yellow and blue! Draw a normal rainbow and a "dog's rainbow" next to each other, and think of some other rainbows to draw. What would a Martian rainbow look like?

There's more  
out back —  
follow the  
arrow!



Science never stops, and it sometimes has unforeseen consequences. In the event that you lose this playbook during a particularly messy experiment — don't worry. You can always find the digital version online if you follow the QR code. And while you're on the website, check out our other kits. They're awesome!

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