

Shhh!
Scientists
love secrets!

TOP SECRET SPY NOTEBOOK

Let's
solve the
case!

Little Lab Challenges • Episode 7

Invisible Ink Detective Notes!



AGENT ID CARD

Agent Codename: _____

Mission Date: _____

Draw yourself
as a spy!

Your mission:

Test different
liquids to reveal
the invisible ink!

Liquid Tested 	Prediction (Best / OK / Worst)	Did it Reveal? (Y / N)	Star Rating	Notes 
1 Lemon Juice 			☆☆☆☆☆	
2 Orange Juice 			☆☆☆☆☆	
3 Apple Juice 			☆☆☆☆☆	
4 Milk 			☆☆☆☆☆	
5 _____ 			☆☆☆☆☆	

DECLASSIFIED



Lemon juice contains a weak **acid**.
Heat makes it react with the air
(**oxidation**) and turn brown —
revealing your secret message!



★ Write Your Secret Message Here!

Use lemon juice and a cotton swab —
let it dry completely before folding!



**TOP
SECRET**

SPY WORDS



ACID

A sour substance
that can cause
changes.



OXIDATION

A reaction that happens
when something reacts
with oxygen in the air.



CHEMICAL REACTION

When two or more
substances mix and
create something new!

COMING
NEXT!

Episode 8: Walking Water Colors

Can water really walk?



Continue Your
Science Adventure!

Members receive: →

- ✓ Bonus experiments
- ✓ Printable badges
- ✓ Science journals

- ✓ STEM challenges
- ✓ Certificates
- ✓ Monthly activity packs

