

Dec 16th 2024

Question: How many germs do you eat if you do the five second rule?

materials Test Subject #1

Ingredient

- Apple
- petri dish
- qtip
- gloves
- cutting board
- phone
- taster

hypothesis
I think it would work
but I don't think that
there will be that many
germs. For five seconds.

I put it in the
bedroom.

Jan 3rd 2025

It has been a week since the
experiment.

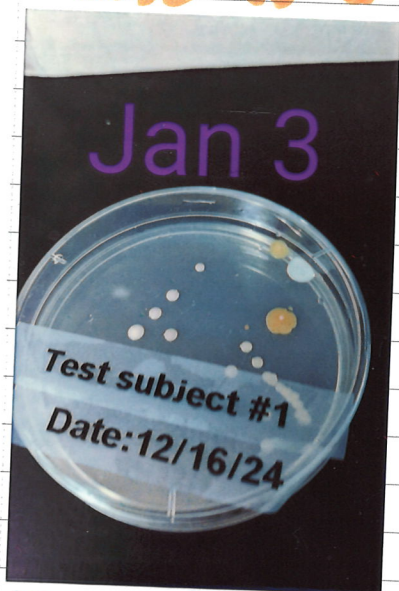
hypothesis/result

It did work and
there is a medium
amount so I guess
that 5 seconds
does do a lot.

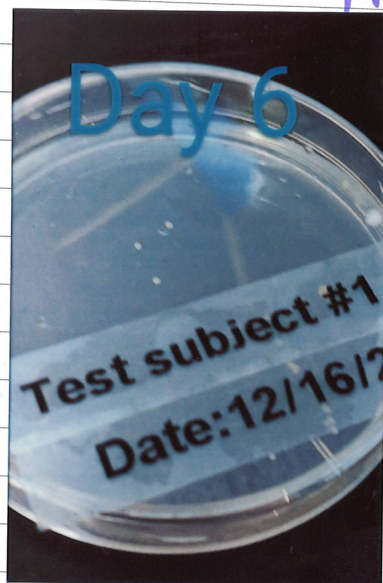
Controlled Variables

continues
next page

Always uses an
apple to do it.
Uses the same
cutting board.
Uses the same
stop watch on
the same phone.



The week after
Day Seven!



Jan 3rd 2025

Controlled Variables

Petri Dish
and I use a
hab for a tip
and gloves

Manipulated Variables

I put it in a
different place every time
the time I put it
on the ground for
changes.

Responding Variables

Sometimes if I change the
time there will be less bacteria
growth and if I put it in
a different place it may
grow slower or faster.

exploring Jan 8th 2025

Control

Test Subject #2

I decided that I should have something that I could compare to say like this is safe. So what I did is I grabbed a clean plate from the dishwasher, grabbed a qtip and did the steps. I scraped the qtip along the plate then I grabbed the petri dish and scraped it in the petri dish. Then I left it in the kitchen.

materials

Ingredients

- clean plate
- petri-dish
- qtip
- gloves
- ~~- cutting board~~
- tupper

hypothesis

for the plate
I think that
it will work
but I think that
there will be
very little.

hypothesis

OK I think
that it will
definitely work
but it will
be less than
last time.

Materials

- Apple
- petri-dish
- qtip
- gloves
- cutting board
- phone
- tupper

I put both test
subjects in the kitchen

Jan 9th 2025

This is the tracking for
the controls

Day 1 There is nothing on the petri-dish
so far

Day 2: There is still nothing there.

Day 3: I see a little bite or stuff but it could be a reflection of

Day 4: There is nothing so it was ~~was~~ reflection last time.

Day 5: I think there is still nothing but I think there is another reflection.

Day 6: There is finally two dots or bacteria.

Day 7: ~~Now~~ it is the same as day six but a growth.

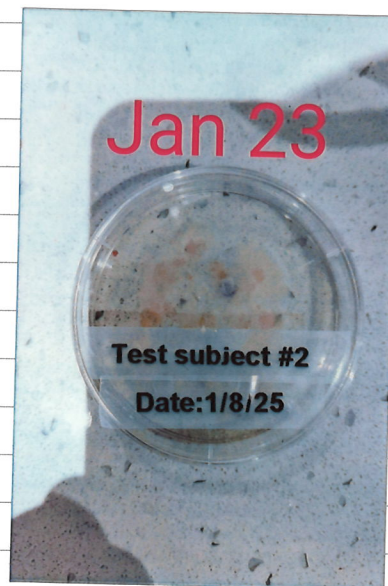
Jan 23rd 2025

1 week ^{Scenes} ~~the~~ the experiment
Control / Test Subject
Results

Hypothesis
Result
It did work
but there were
two to three
dots so very little.



Hypothesis
Result
It did work
but there was
a lot of bacteria
growth more
than last time.



Brainstorming/Analysis

Jan 27
2025

How will I count the
germs in the petri dish?
How I am going to compare
the amount of germs is by using a
scalp and draw little dots and
that means it only bacteria grows
I know that the ones that aren't under
dots I will know that they aren't supposed
to be there

And how I am going to see if I am
doing the right amount of time for
putting it on the floor is I am using
my phones stop watch

Feb 4, 2025

Test Subject #3

Materials

- Petri Dish
- Apple
- Q-tip
- cutting board
- bowl
- gloves
- phone

I put it in the basement.

hypothesis

I think since it is 3 second it will be more than the control but less than the others.

Feb 6th 2025

I started to notice that the bacteria after a long period of time they would crack and the mold would some times disappear



Picture blue. I don't know. I don't know. I don't know.

11 Wash

Procedure

Feb 6th 2025

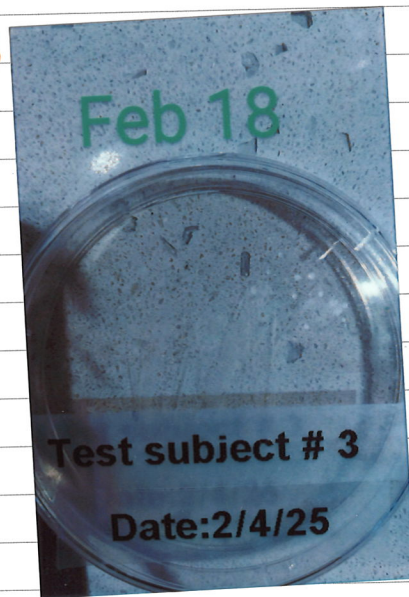
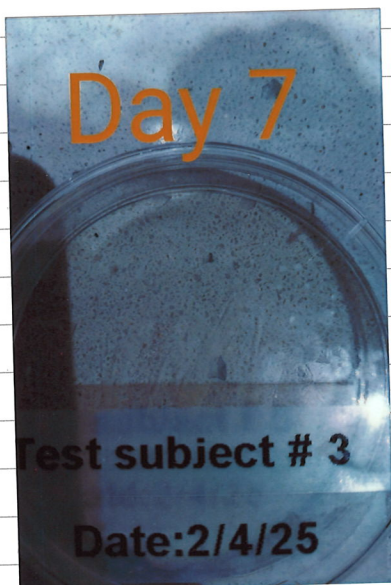
Procedure

- First I get my station ready then I put on my gloves then wash the Apple, then I cut it into a little piece.
- Next I will grab the Apple and drop it on the floor for five seconds four/three/two seconds by using my phone.
- Then I will grab the petri-dish and with the apple the side that fell on the floor get scraped by a Q-tip and then the Q-tip scrapes it along the petri-dish.

Feb 18th 2025
Test Subject #3

Hypothesis Result

It looks like there are no germs but there are two tiny dots that aren't visible through a camera. And I was right about it being less than the others but I was wrong about how it would be more than the control but it is more like the same!



Feb 23, 2025
Test Subject #4

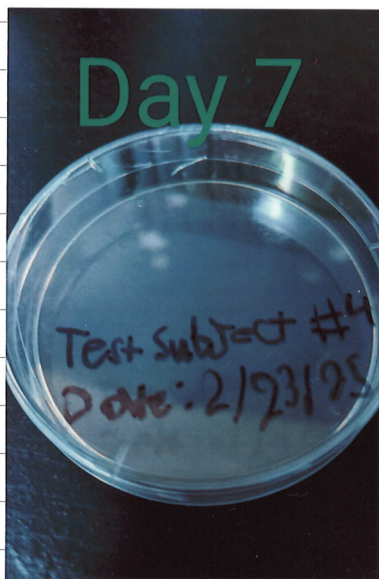
- Materials
- Apple
 - Petri Dish
 - gloves
 - Q-tip
 - cutting board
 - Sharpie
 - Phone

Hypothesis
I think since
test subject three was
messed up it will
be more than number
3!!

I put it in
my closet

March 5, 2025

well, I have to end this experiment
short the reason that test subject
#4 was not working was because
the petri dish expired so for test
subject #4 it was a fail but
here are some pictures!



Hypothesis/
Result
My hypothesis
was wrong there
were no germs
on test subject four.

March, 5, 2025

Conclusion.

So I was right about it being a lot of germs but just by itself test subject 1 and 2 had the most and should not be eaten but number three could be it just matters if you do it on a medium floor then it would be safe

Applications

I learned that you really should not eat off of the floor even if you say five second rule. And if I were to do this again then I would probably do all the experiments at once so the petri dish would not expire.