

# HOW GERMS TRAVEL

Created by

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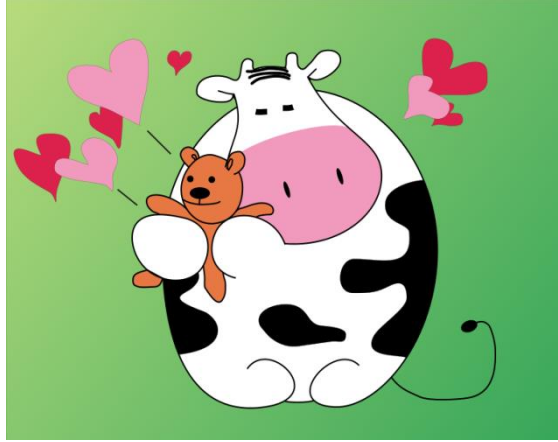
Satina Sund



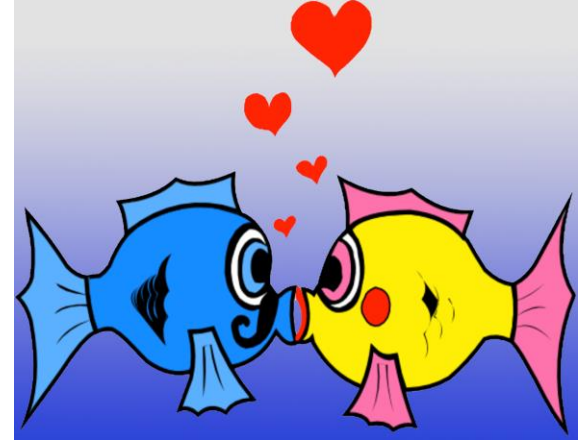
# 1) Direct: Person to Person



Handshake



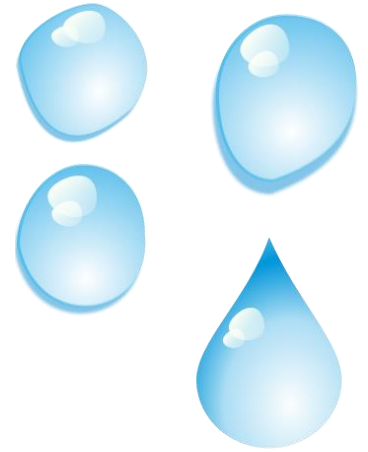
Hug



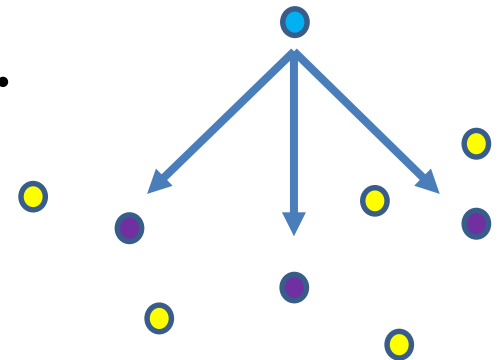
Kiss

Passing of germs with contact from one body directly to another.

# Water Transfer



- Each of you had a cup of water.
- You shared this with three other students. Think of this as giving kisses. (EWWWWWW!!)
- At the end we saw which students ended up with the virus and found the one person who started it all.



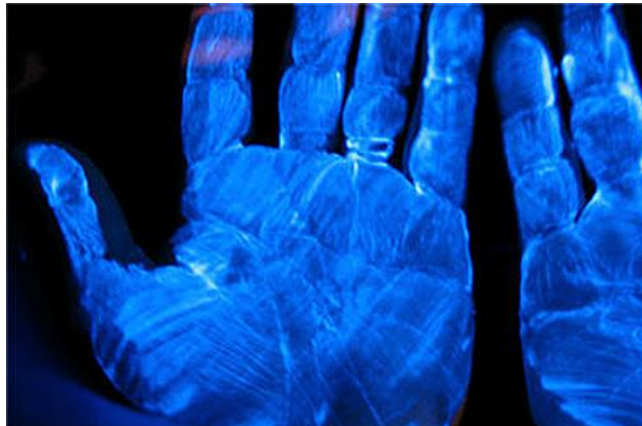
## 2) Indirect: Person to Person



Passing of germs from one body to another using contact of an object.

# Germ Juice

- You touched items in this room for only half the day: desk, doorknob, water fountain, etc.
- With the black light, you got an idea of how far germs can spread in a short time.



### 3) Airborne



Passing of germs transported through the air.

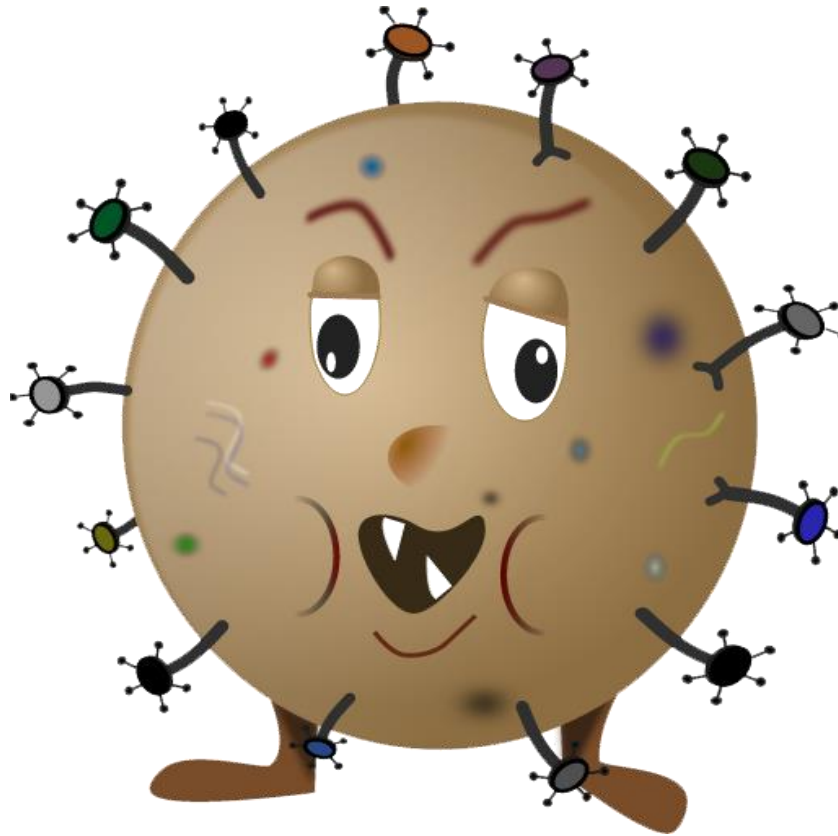


# Sneeze Game



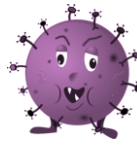
- When you sneeze, germs travel about 6 feet.
- Using the spray bottle, we saw how sneezing can spread germs.
- What was the farthest our water sneezes traveled?
- For EXTRA fun check out this **SNEEZE** game <http://www.routesgame.com/games/?challengeId=2>

# Let's See What You Learned

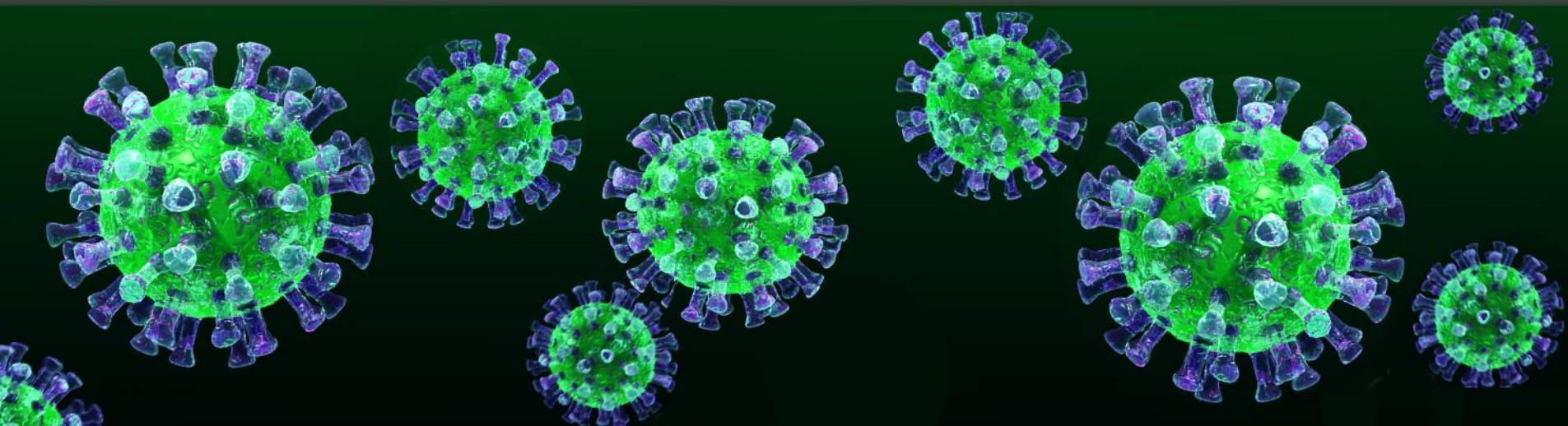




# QUIZ

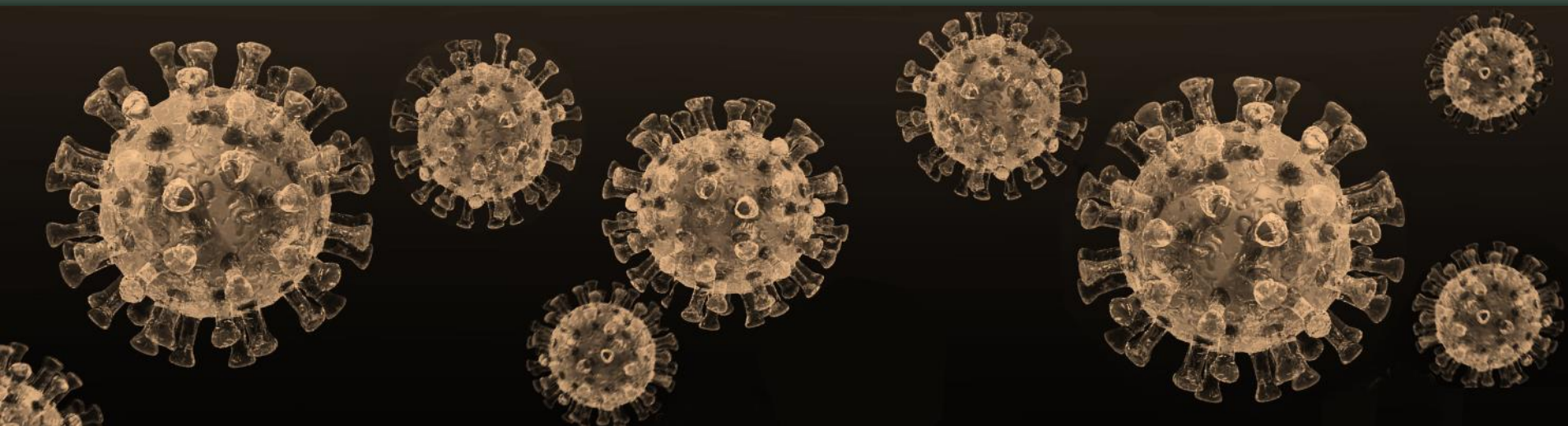


1. What type of germ travel happens when you shake someone's hand?
  - a. Indirect
  - b. Direct
  - c. Airborne
  - d. None of the above



# QUIZ

2. What type of germ travel happens when you sneeze on a bus full of people?
- a. Indirect
  - b. Direct
  - c. Airborne
  - d. None of the above



# QUIZ

3. What type of germ travel happens when you drink water out of someone else's cup?
- a. Indirect
  - b. Direct
  - c. Airborne
  - d. None of the above





# QUIZ

4. About how far do germs travel when you sneeze?
- a. 2 feet
  - b. 4 feet
  - c. 6 feet
  - d. 8 feet



# Image Links

**Slide 1: Ask A Biologist**

[http://en.wikipedia.org/wiki/Hitchhiking#mediaviewer/File:US\\_no\\_hitchhiking\\_signs.svg](http://en.wikipedia.org/wiki/Hitchhiking#mediaviewer/File:US_no_hitchhiking_signs.svg)

**Slide 2:**

<http://dragonartz.wordpress.com/2009/07/27/handshake-vector/>

<http://commons.wikimedia.org/wiki/File:Mukkabear.svg>

<http://colouringbook.org/2012/01/08/page/3/>

**Slide 3: Ask A Biologist**

[http://commons.wikimedia.org/wiki/File:Rg1024\\_Set\\_of\\_water\\_drops.svg](http://commons.wikimedia.org/wiki/File:Rg1024_Set_of_water_drops.svg)

[http://clipartist.info/www/TATARTIST.NET/L/lips\\_2\\_tattoo\\_tattoo.svg.html](http://clipartist.info/www/TATARTIST.NET/L/lips_2_tattoo_tattoo.svg.html)

**Slide 4:**

<http://www.kitchenandresidentialdesign.com/2009/02/im-attracted-by-shiny-objects.html>

<http://www.flickr.com/photos/spadgy/313251515/>

<http://commons.wikimedia.org/wiki/File:Generic-remote-control-shallow-focus.jpg>

**Slide 5:**

<http://allhealthcare.monster.com/benefits/articles/4079-5-shocking-stats-about-doctors?print=true>

**Slide 6:**

<http://thedailyretort.com/uniting-church-and-state-via-a-sneeze/>

<http://biology111s22011.wikispaces.com/Nathalie+Cecire>

**Slide 7:**

<http://www.wikihow.com/Use-a-Spray-Bottle-on-a-Cat-for-Training>

**Quiz Slides:**

<http://commons.wikimedia.org/wiki/Category:Viruses#mediaviewer/File:Mers-virus-3D-image.jpg>