



Dirty section

Colony 1 _____

Colony 2 _____

Colony 3 _____

Colony 4 _____

Colony 5 _____

Clean section

Colony 1 _____

Colony 2 _____

Colony 3 _____

Colony 4 _____

Hand Shaking Experiment: Section A Results Worksheet

Observations

Which side of the Petri dish contained the highest number of microbes?

Which side of the Petri dish contained more different colonies of microbes?

How many different colony types were there on the:

Clean _____

Dirty _____

Conclusions

Some people may see more microbes on the clean side of the Petri dish than the dirty side. Why?

Which colonies would you consider the friendly microbes and why?



Hand Shaking Experiment: Section B Results Worksheet

Procedure

1. Carry out the experiment according to the teacher's instructions.
2. In the table below, fill in how many different types of colonies you counted on your Petri dish and draw a graph of your results.

After washing (or not washing) and shaking hands

Results	Student 1	Student 2	Student 3	Student 4	Student 5	Student 6
No wash (control)						
Quick wash						
Thorough wash						
Thorough wash with soap						

Which method of hand hygiene eliminated the most microbes?

Why would soap help eliminate more microbes than washing with water alone?

What are the advantages and disadvantages to using antibacterial soap when washing your hands?

Advantages: _____

Disadvantages: _____

What evidence do you have that microbes can be transmitted by hands?

Which areas of the hand would do you think would contain the most microbes and why?

List 5 times when it is important to wash your hands:

a _____ b _____ c _____
 d _____ e _____