**Hong Kong Metropolitan University**

**Jockey Club STEAM Education Resources Sharing Scheme**

**Is It Really Clean?**

|  |  |
| --- | --- |
| **Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |

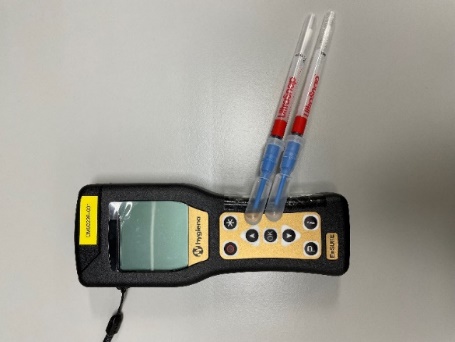
**Part I: ATP test:**

The target object was:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Swabbed area:\_\_\_\_\_\_\_\_cm2

The reading was:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_RLU

* Gather the results from the other groups and rank the cleanliness of the selected targets:

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**Part II: Spread plate method and calculation:**

The target object was:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Swabbed area: the whole target  Area:\_\_\_\_\_\_\_\_cm2

1. **The swabbed area of the target (Total: 120 cm2) was 10 cm2 with no serial dilution.**
   1. **Given the result of the spread plate method: 44 colonies found**

The number of microbial cells was:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_CFU

1. **The whole target was swabbed with 2 times serial dilution.**
   1. **Given the result of the spread plate method: 44 colonies found**

The number of microbial cells was:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_CFU

1. **The swabbed area of the target (Total: 120 cm2) was 5 cm2 with 2 times serial dilution.**
   1. **Given the result of the spread plate method: 44 colonies found**

The number of microbial cells was:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_CFU