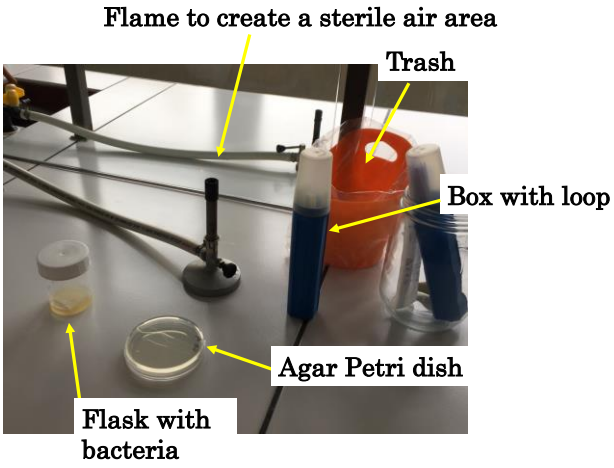
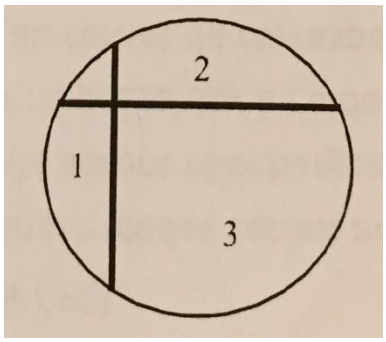
Bacterial degradation of PHB:
Test for viability and development of bacteria

1. Preparation
1.1 Tie your hair.
1.2 Set your workspace like in the picture.



1.3 Turn on the Bunsen burner.
1.4 Along the edge of the bottom of the petri dish, write: the date,
the plastic material,
the type of bacteria,
group number.

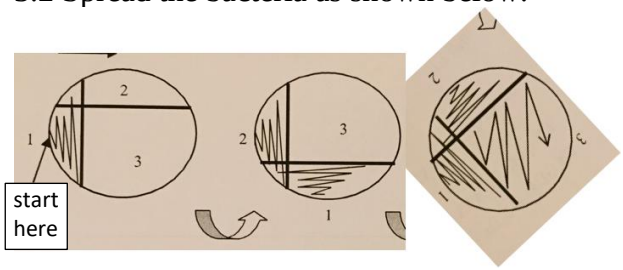
1.5 on the bottom of the Petri dish draw two lines as it is shown.



2. Sample collection
2.1 Sterilize the loop by heating in the flame of the Bunsen burner for 10 seconds.
2.2 Cool it down by touching the agar.
2.3 Collect a sample of the liquid medium with the sterilized loop.

3. Inoculation
3.1 Inoculate the nutrient agar with the bacteria sample as shown.

3.2 Spread the bacteria as shown below.



First, spread the sample carefully on part 1 of the petri dish, turn the petri dish +90°, spread the sample on part 2 and turn at new for the part three.
The sample should only be spread on the surface of the agar.

4. Incubation
4.1 Petri dishes are incubated at 37° C for 24 hours.

5. Tasks:
5.1 Observe the result. Are there any differences among treatments? Compare your results with other groups.
5.2 Take a picture of each petri dish and interpret the result.
5.3 Prepare a presentation of the result to present it to the audience.