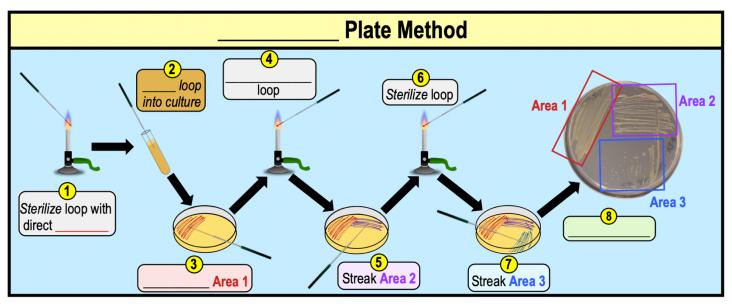
CONCEPT: PLATING METHODS

Streak-Plate Method

•	plate method: most common & simplest way of isolating microbes in a laboratory.	
	□ Mixed culture of cells transferred to a Petri dish &	across the plate using an inoculator.
	□: metal or glass <i>loop</i> used to isolate & transfer colonies between growth media.	

•The method is outlined in a series of _____ steps:



PRACTICE: The streak-plate method is useful for:

- a) Quantify the number of cells in a culture.
- b) Measuring the metabolism of a cell.
- c) Isolating a specific species of bacteria.
- d) Determine cell shape of bacteria.

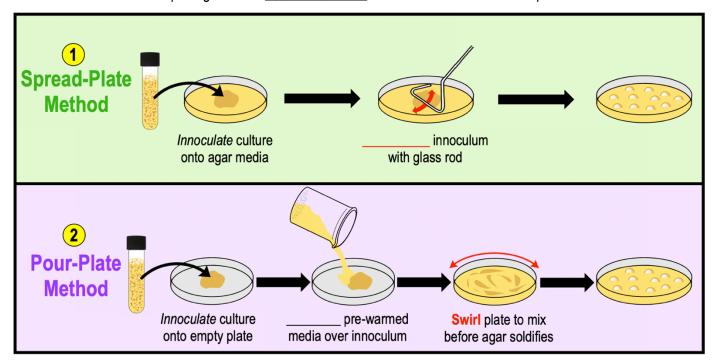
PRACTICE: In the streak-plate method, what is done with the inoculating loop after each streak?

- a) It is discarded and another one is used.
- b) It is re-introduced to the culture stock.
- c) It is disinfected with an antiseptic.
- d) It is flamed until the loop is red with heat.

CONCEPT: PLATING METHODS

Spread-Plate Method vs. Pour-Plate Method

- •When transferring a liquid culture to a plate, cultures can be added to the plate in one of _____ methods:
 - 1 Spread-plate: 0.1-0.2 mL diluted liquid culture is added to an agar plate & _____ with a sterile glass rod.
 - 2 _____plate: 0.1-1.0 mL diluted liquid culture is poured on an agar plate _____ warmed (liquid) agar is.
 - □ Warmed *liquid* agar media ______ *after* it is mixed with the sample.



•Unlike the streak-plate method, these can NOT be used to isolate a species of bacteria from a mixed culture.

PRACTICE: The _____ method is used to isolate microbial colonies while the _____ method is used to count the number of viable microbial cells or colonies.

- a) Spread-plate method; Pour-plate method.
- b) Streak-plate method; Spread-plate method.
- c) Pour-plate method; Steak-plate method.
- d) Pour-plate method; Spread-plate method.

PRACTICE: Which plating method can be used to isolate a species of bacteria from a mixed culture of cells?

a) Pour-plate method.

c) Spread-plate method.

b) Streak-plate method.

d) All methods can be used.