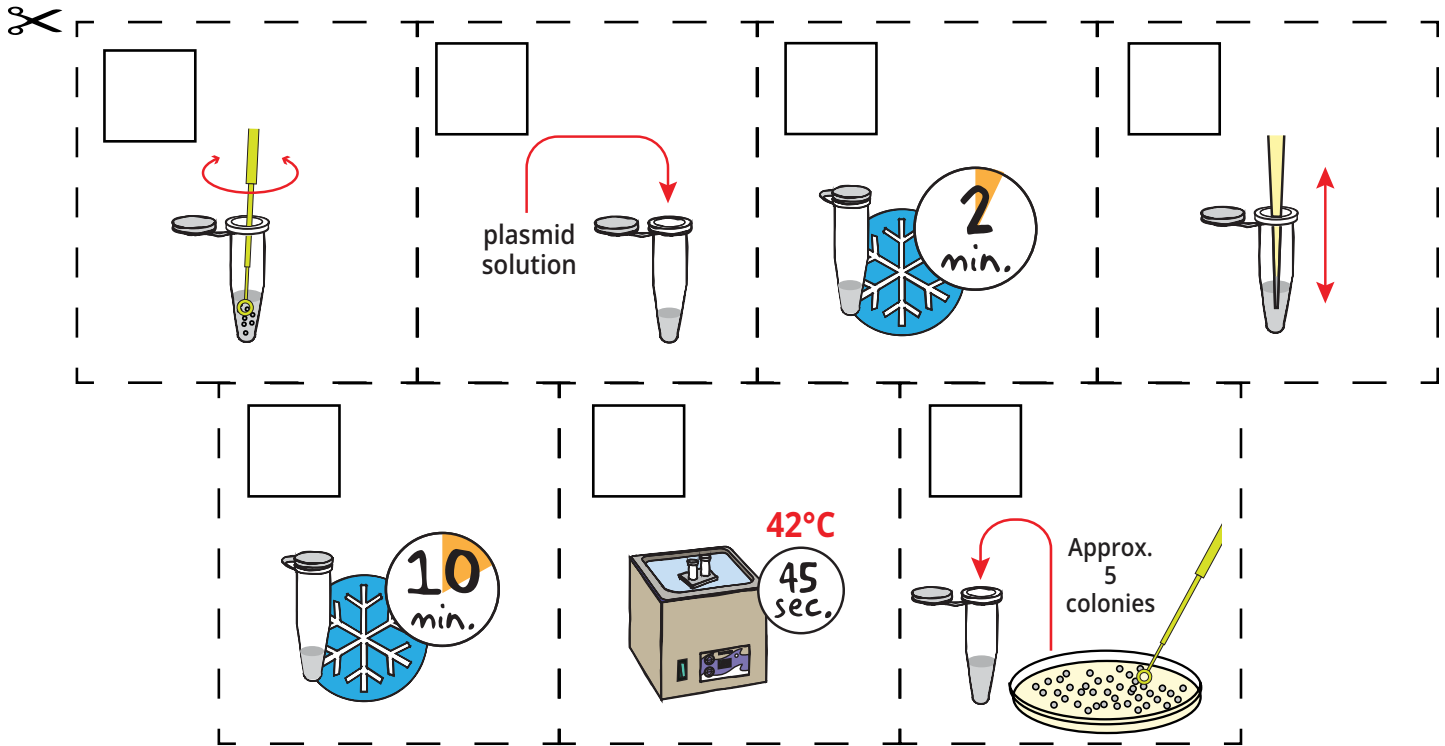


## STORY TILES: TRANSFORMATION PROTOCOL

Below are story tiles depicting a common lab procedure for creating competent cells (bacteria cells that can take in exogenous DNA). Using the lab instructions provided below as a guide, **CUT OUT** the cards and **REORDER** them in the correct sequence. **FILL IN** the numerical sequence in the left box of each story tile for future reference or **PASTE** onto a new sheet of paper in the correct order.



1. **ADD** Calcium Chloride to a sterile test tube and place on ice for 2 minutes.
2. Using a sterile loop, **TRANSFER** 5 well isolated bacteria colonies to the test tube containing Calcium Chloride.
3. **TWIST** the loop between your fingers to free the cells.
4. **RESUSPEND** the bacteria cells by pipetting up and down.
5. **ADD** the plasmid solution to the tube.
6. **INCUBATE** on ice for 10 minutes. Just one tube.
7. **TRANSFER** to a warm water bath, incubate for 45 seconds.