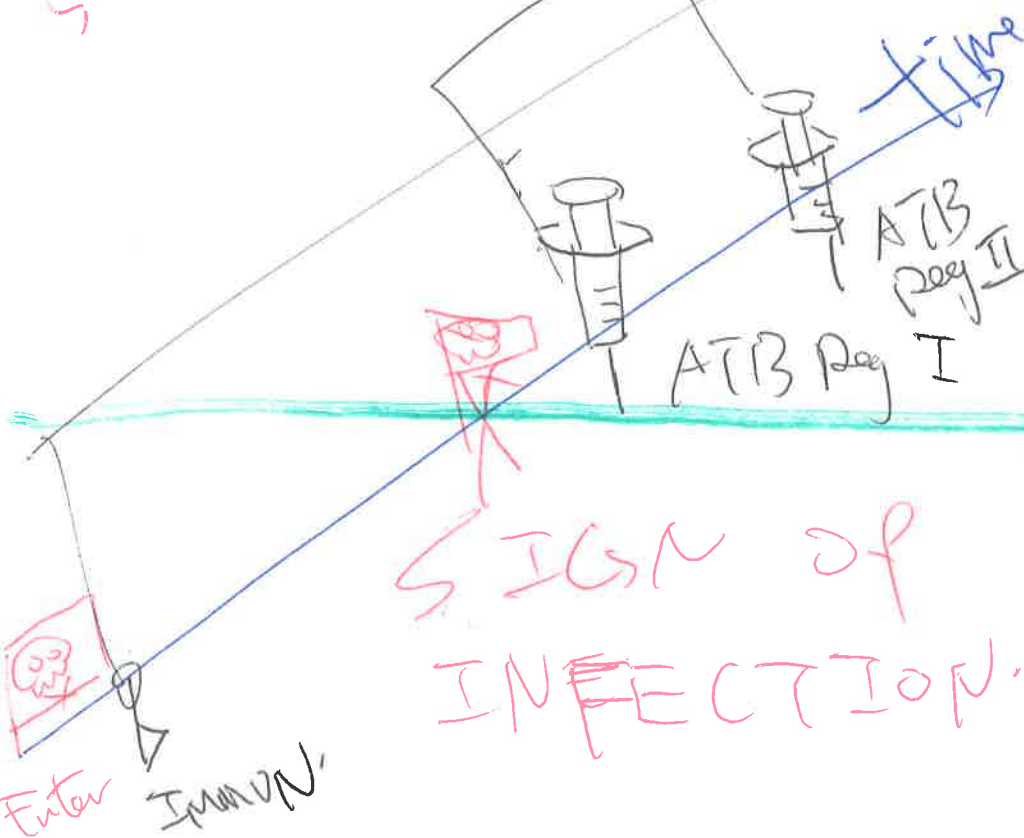
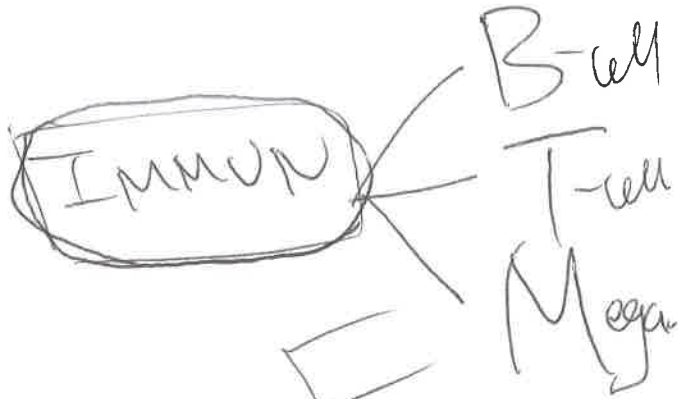




ATB

Bacteria invasion
Subject 616



Chitauri

Alien Invasion
Earth 616

AVENGERS

Army

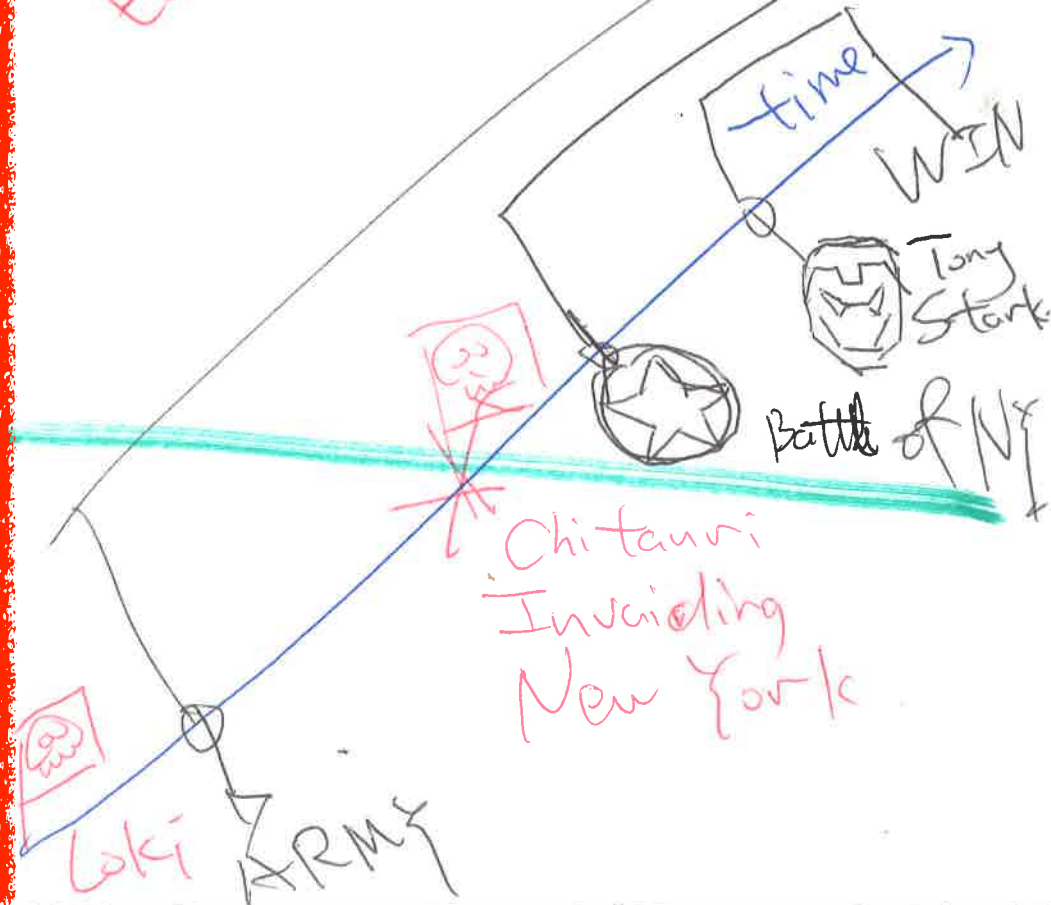
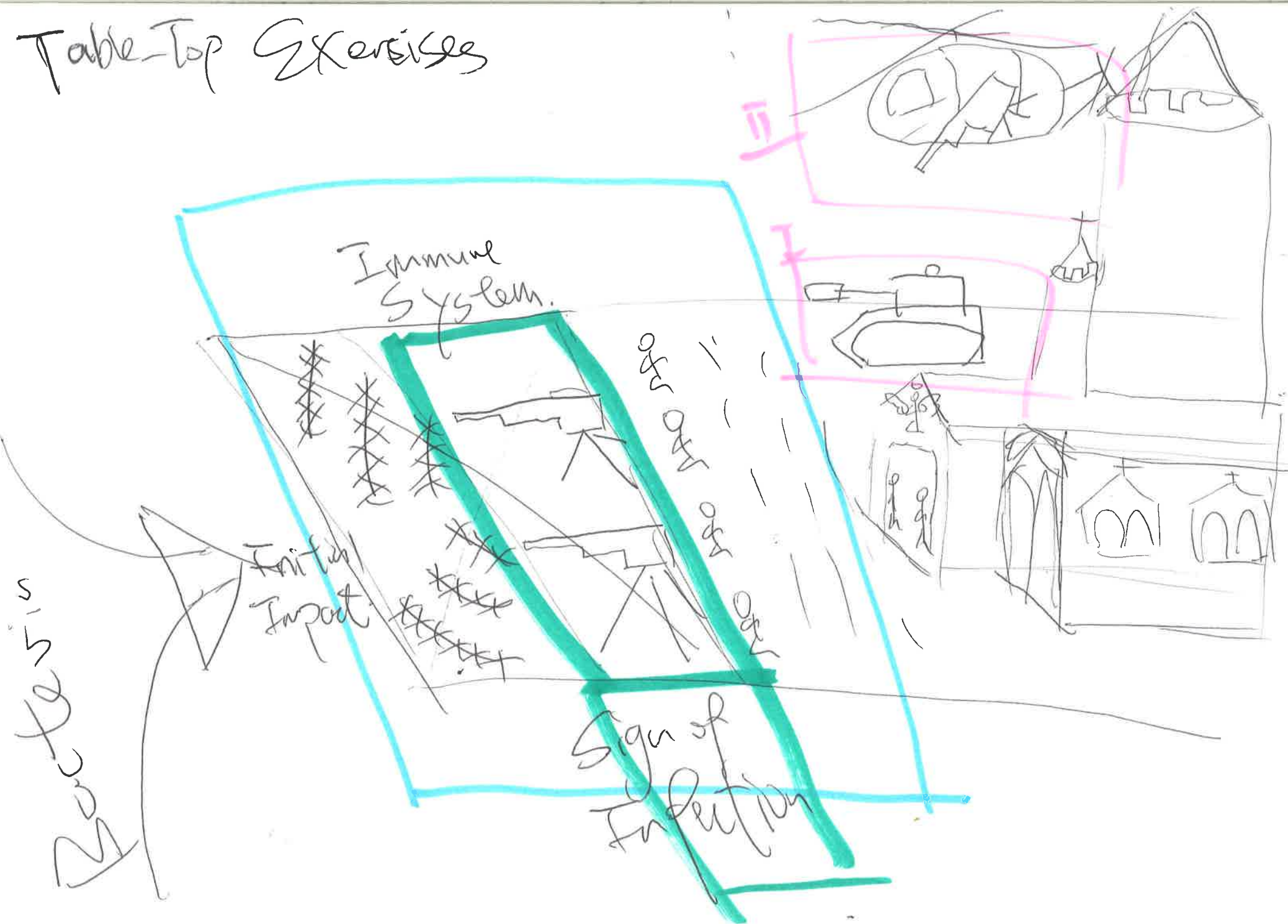
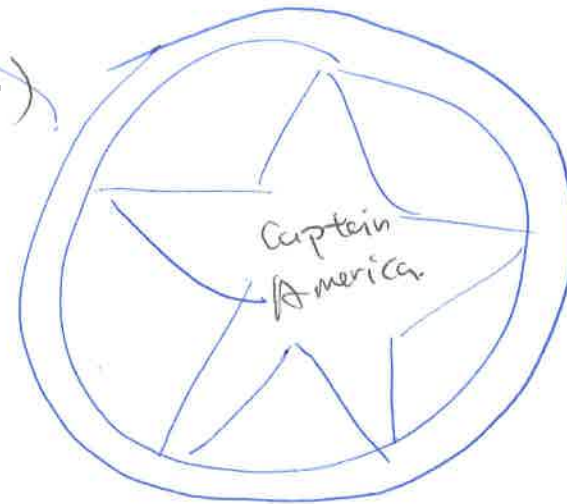


Table-Top Exercises

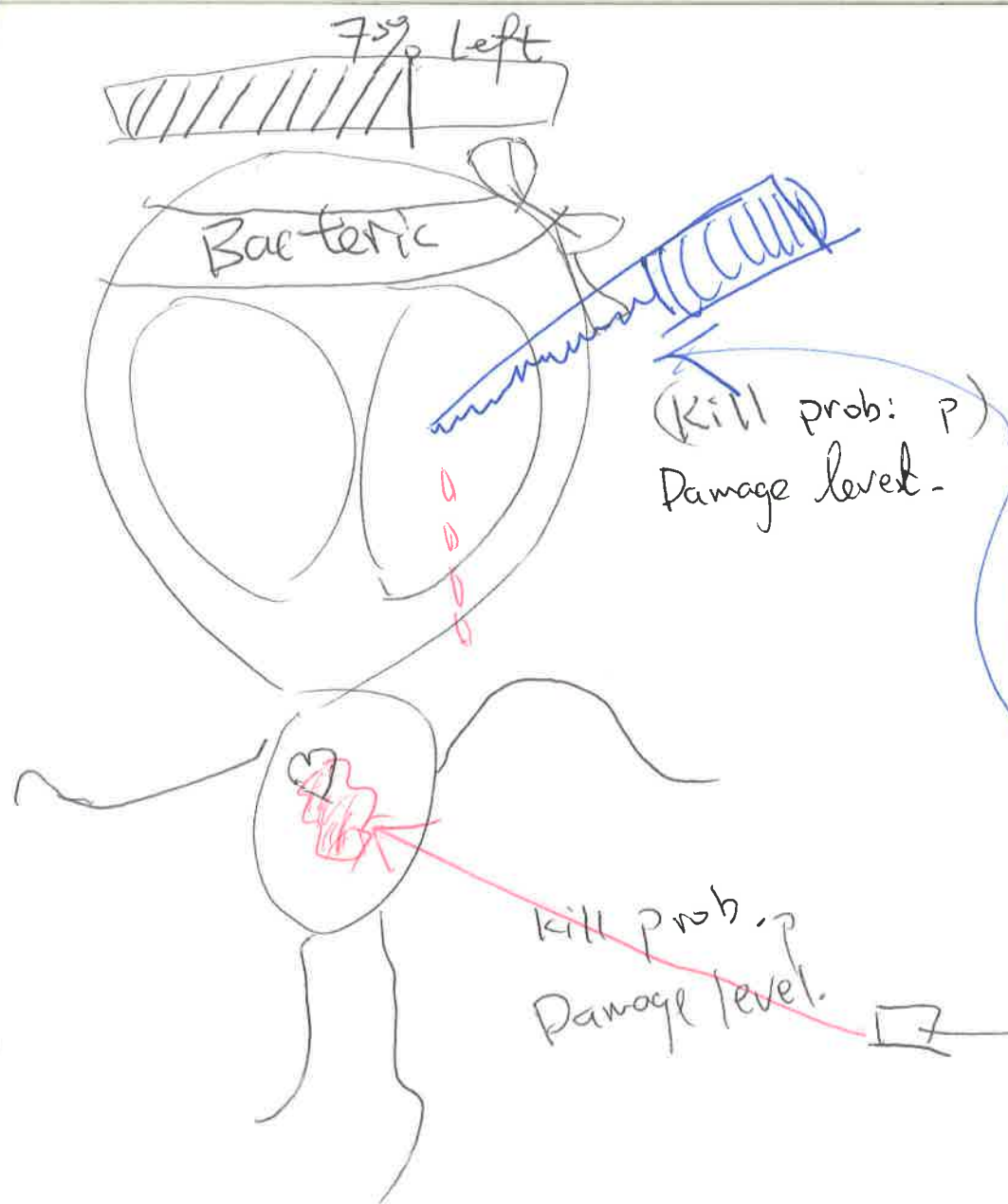
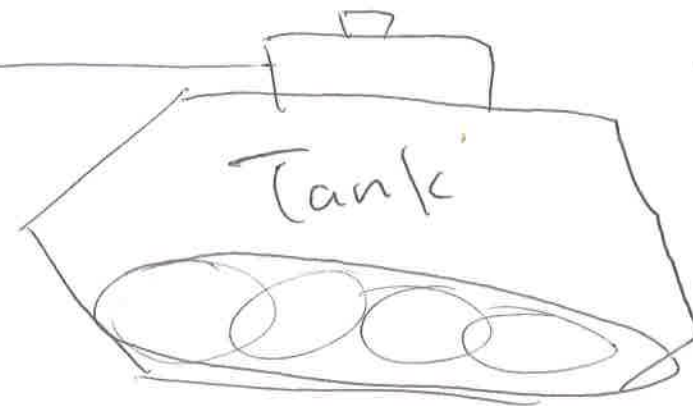


Let's Zoom in to
see what happens.

ATB.



T-Cell.



§ What Happens With Loop?

— Always:

1° Bacteria Multiplication
(Exponential Growth)

2° Immune System fighting.
(Kill a proportion of Bacteria)
Each time

— Sometimes:

3° ATB

(Kills a large proportion)

4° Bacteria Learning "Resistance"

X X V X X X X X X X X

§ Resistance?

— In Each Loop, $1/10^6$ bacteria [♡] MUTATE [♡]

— Each Mutant Bacteria - $1/10^6$ chance learn
Resistance to ONE or SEVERAL ATBs.

— Once "Resist" learned, never "forgets"

— Once "Resist" learned, Reduce probability of
being killed by that ATB.

It All Comes To AN END

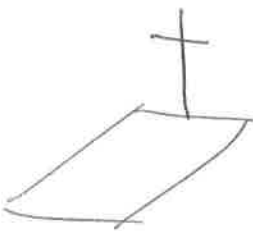
- "WIN":

$$\Leftrightarrow \#(\text{Bacteria}) < \text{Threshold.}$$

(or "Coexist" (?))

- "LOSE"

- Case I: Time for Rematch

- Case II: 

(?) - Case III: Resuscitation