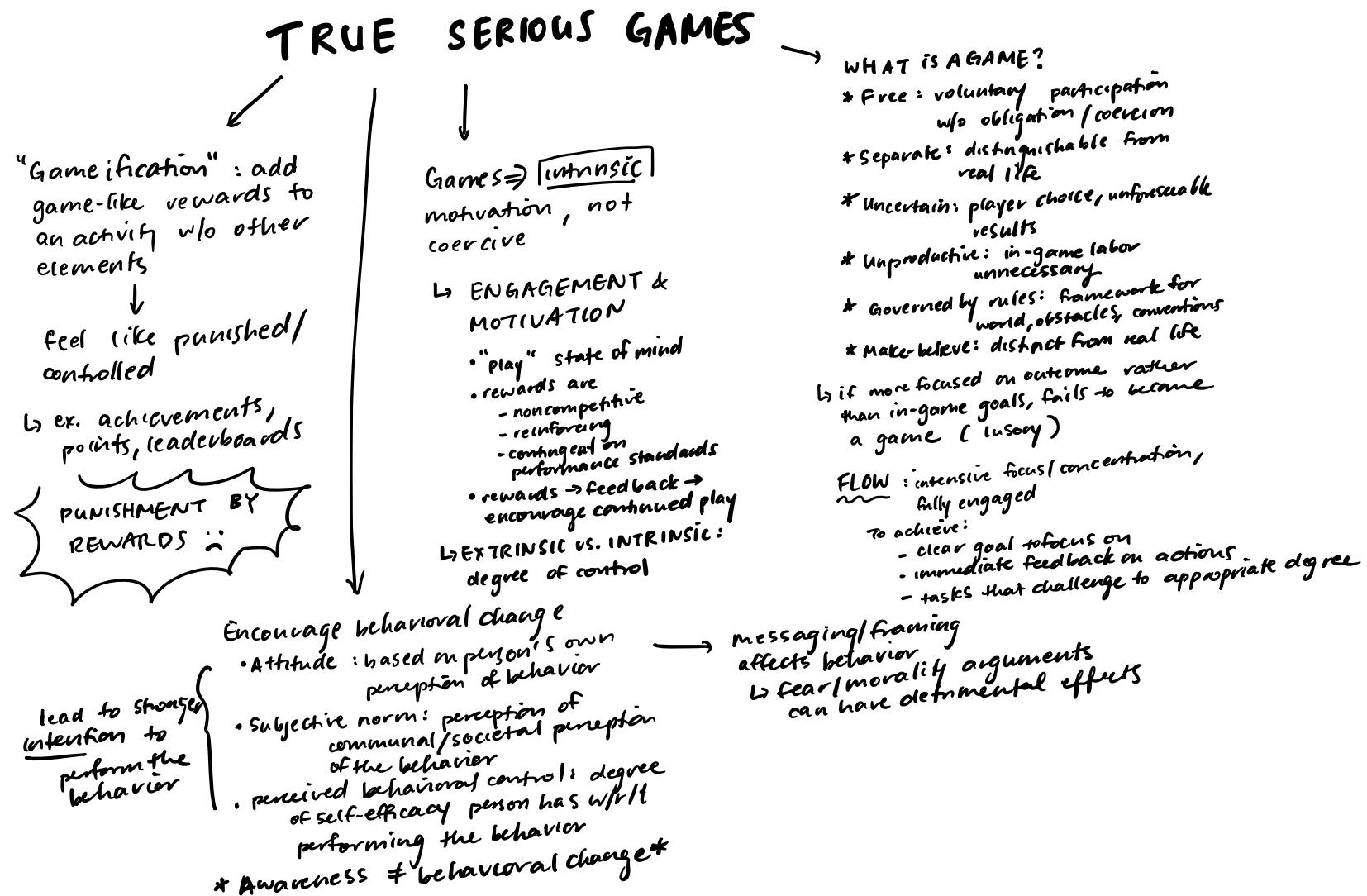
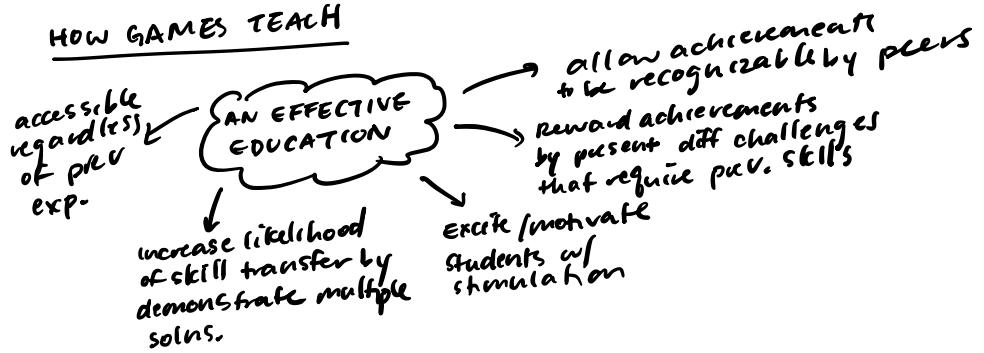


MECHANICS, DYNAMICS, AESTHETICS, & OUTCOMES (MDAO) FRAMEWORK



HOW GAMES TEACH



similarities to games

- active & participatory
- ↓
- ownership & agency
- flow-promoting elements
- clear objectives + markers of success

if

- self-efficacy
- immediate feedback
- Encourage "overlearning" (mastery)
- Massed practice → learn skills

MDAO FRAMEWORK

- * MECHANICS
 - Elements that players interact w/ directly
↳ controls, tools, obstacles, rules, etc
 - Genre = collection of mechanics, ex. FPS
- * DYNAMICS
 - player behaviors that emerge from the constraints of mechanics
 - player's reaction + interaction of mechanics
- * AESTHETICS
 - Emotional responses that arise in player from participating in dynamics of game
 - 8 categories:
 - Sensation: sense-pleasure
 - Fantasy: make-believe
 - Narrative: drama
 - Challenge: obstacle course
 - Fellowship: social framework
 - Discovery: uncharted territory
 - Expression: self-discovery
 - Submission: pastime
- * OUTCOME
 - The real world result of serious game
 - For non-serious game, usually pure aesthetic outcome

DESIGNING SERIOUS GAMES

Start from outcome

choose M/D/A to support outcomes

IDENTIFYING DESIRED OUTCOME

1. Behavior change
2. Attitude
3. Information
4. Self-efficacy
5. Explicit skills
6. Implicit skills
7. Aesthetic

The MDAW process:

