

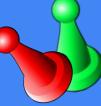






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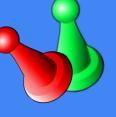
Game Designer Template











Why Game Design?



pollev.com/coeps

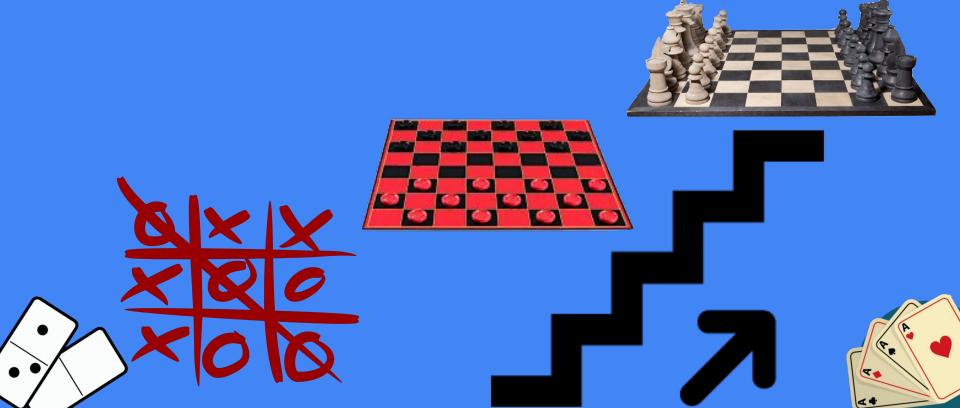


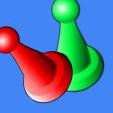




Remix a Game - Differentiate







Remixing a Game

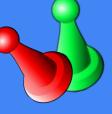




Change the Verbs of the Game







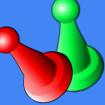




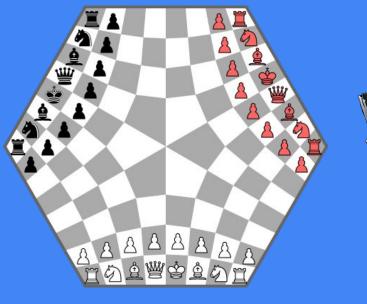
How can we adapt the rules/mechanics of an existing qame?















How can we change the mechanics of the game?



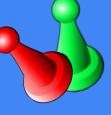
















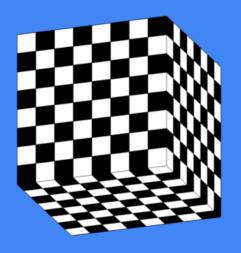


How can we change the physical board/play space?















How can we change the physical board/play space?















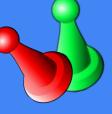






How can we change the mechanics of the game?





























Gamestormers

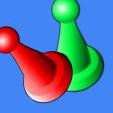


Magic: The Gathering Inspiration









Reskin a Game





How can we keep a game similar, but change its theme?

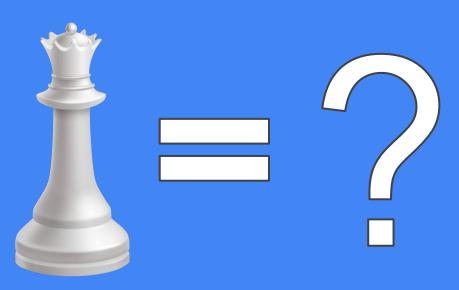






Reskin a Game

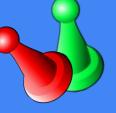






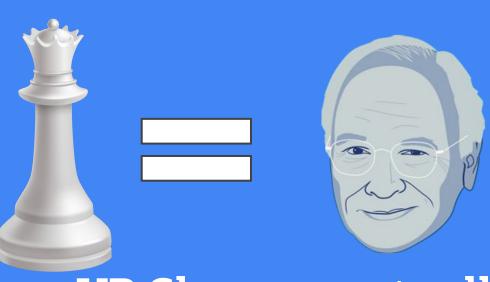
How are the roles/characters in a game similar to content?





Chess as Politics

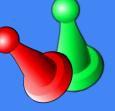




Queen as VP Cheney - <u>actually</u> had all of the power instead of "king" President Bush







Chess as Literature





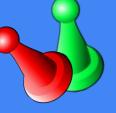




Knight as Romeo & Juliet moves erratically, much like their decision-making

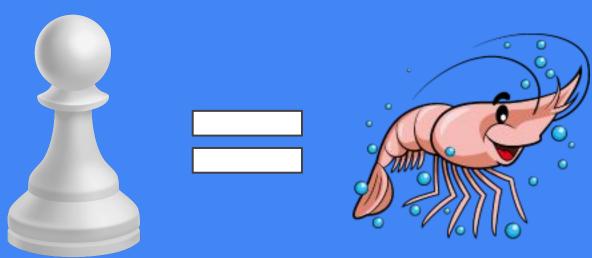






Chess as Biological Ecosystem

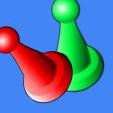






Pawn as Plankton - lowest on the food web in the ocean, much like pawns





Reskin a Game

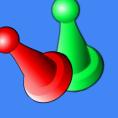




How can we keep a game similar, but change its theme?







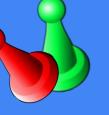
Backwards Design Approach





Start with end goal and work forward from there!





1. Establish Player Goal



Build the best society

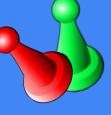
Make the most persuasive argument





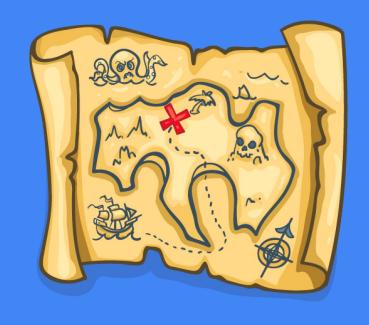
Keep a food chain in balance





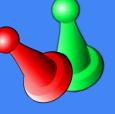
Establish Player Goal...











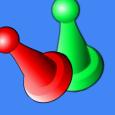
Sample Game: Knights of the Numeracy Table





Work together to defeat monsters using your decks and purchased cards!





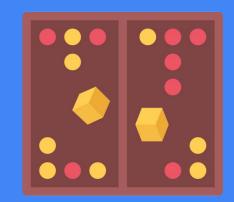
2. Determine Game Type



Creative/Party

Cooperation

Combat



Meeple Placement

Roll and Do



Deck Game





Deck Games



Objective:

*Start with a deck of cards used to accomplish a goal *Buy new cards to make your deck stronger *Work as a team or play another person



Check out...

*Clank, Star Realms, Harry
Potter: Hogwarts Battle

Great for...

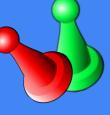
*Math - numeracy skills and number sense

*Social Studies famous historical eras and wars

*Science - chemicals, ecosystems & more







Deck Games



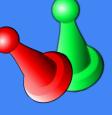
How do I...

*Generate "currency"
to get new cards?
*Work toward my win
condition? Take
tricks? Deal damage?
Collect sets?
*Handle mechanics?









Deck Building Example



Math - Play cards to add up to totals of enemies on board

<u>Social Studies</u> - Build an industrial empire by playing resources and buying new technology to meet goals







Creative/Party



Objective:

*Players create original responses to prompts, creatively express answers, or match teammates *Responses could be written, acted, or made





Check out...

*Balderdash, Codenames, Apples to Apples,

Great for...

*ELA - Vocabulary terms, characters *Social Studies famous events, historical figures *Science - Species, vocabulary, etc





Creative/Party



How do I...

*Creatively express my response?

*Setup a system to determine a victor?

*Handle mechanics?

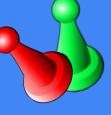
Turns? Submissions?

Teams?









Creative/Party Example



ELA - Create fake news, tweets, and hoaxes to fool your fellow players making their own

<u>Science</u> - Teams must draw a science term and get their team to guess it using gestures, play-doh, or word association







Roll and Do



Objective:

*Be the first to make it to the end of the game board with dice rolls, cards, or another means *Obstacles, opponents, or luck get in the way of success



Great for...

*Math - numeracy, equations, etc *ELA - Vocabulary, character, narrative

Check out...

*Sorry, The Magic Labyrinth, Zombies!







Roll and Do



How do I...

*Move across the board? Random? Barriers to moving?

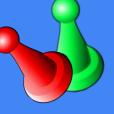
*What events affect movement? Other players? Roadblocks?

*How many paths to objective? Fixed? Multiple?









Roll and Do



Math - Use a combination of dice numbers and math symbols to move forward on a game board

<u>ELA</u> - Move around a board with a story chart to match up your cards with the correct location on the chart







Meeple Placement



Objective:

*Place pieces on areas
to accomplish goals &
get resources
*Space is limited on
the board, so order
matters! Resources or
goals may be scarce
or competitive



Check out...

*Stone Age, Agricola, Dead of Winter

Great for...

*Social Studies resource scarcity,
society & nature, etc
*Science ecosystems, hunters
& gatherers, etc







Meeple Placement Example

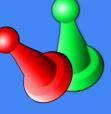


<u>Social Studies</u> - Gathering supplies from various natural resources in a society

<u>Science</u> - finding food, water, and shelter in an ecosystem







Cooperation



Objective:

*Work together to reach a shared goal *Often involves communicating information, sharing resources and planning ahead



Check out...

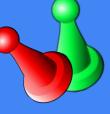
*5 Minute Dungeon, Mysterium, Pandemic

Great for...

*Social Studies government, nations,
societal simulation
*Science Experiments, animal
kingdom, etc
*ELA - narratives,
persuasion, etc







Cooperation Example

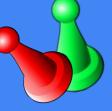


<u>Science</u> - Create chemical compounds by combining like elements as a team

<u>ELA</u> - Each character in a narrative has a specific strength to contribute to solving a common problem in the storyline







Combat



Objective:

*Players attempt to eliminate each other or another team *Each person usually has health or hit points they must protect/attack





Great for...

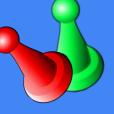
*Math - numeracy, number sense *Science - food chain, animal kingdom *Social Studies famous conflicts, historical figures



*King of Tokyo, Coup, Bang: The Dice Game







Combat Example



Math - Use a combination of number cards and math symbols to deplete your opponent's health

<u>Science</u> - Deploy a variety of animals in the food chain to eliminate the other person's based on the food chain







3. Develop Key Mechanics



Combine number cards to add up to enemy total

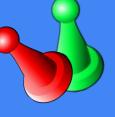
Trick others into guessing your fake news



Match elements to make compounds

Gather enough resource cards to meet objective





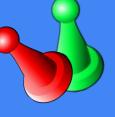
Other Ways to Brainstorm



If this character/historical figure/famous person was in a story, what would their powers be?







Other Ways to Brainstorm



What would be the "currency" in a game about this topic?









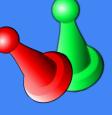
Other Ways to Brainstorm



What choices would a player need to make regarding this topic?







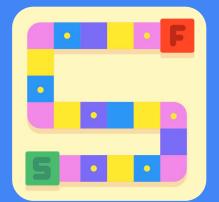
4. Create Prototype



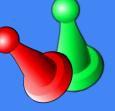








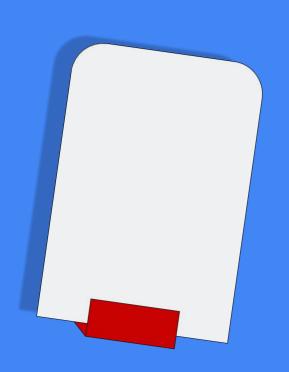




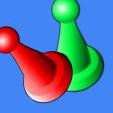
Resources to Make Games











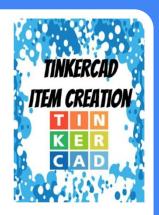
Resources to Make Games













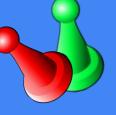












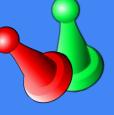
5. Playtest











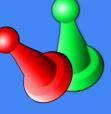
GameStormEDU Game Template











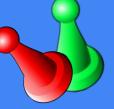
6. Revise Prototype











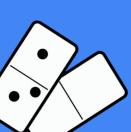
Should We Try a Game?











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