

Commercial Math and Literacy Games

Junior Monopoly

Junior Monopoly is a simplified version of Monopoly™, but it is still somewhat advanced. At least one of the players must be able to read simple sentences and understand simple quantities (1-5) in order to play. Players take turns rolling one die and moving that number of spaces around the board. When they land on amusements, they must pay the owner of that amusement an entrance fee. If the amusement is not yet owned by a player, the player to land on it first pays the bank the entrance fee, places his or her toll booth on it, and becomes the owner. Like regular Monopoly™, players collect money each time they pass go. The game ends when one player runs out of money. The remaining players count their money, and the one with the most money wins. This game provides rich opportunities for reasoning about number and arithmetic. When players buy amusements and pay (or are paid) entrance fees, they have opportunities to add and subtract in making change. When a player owns both amusements of the same color, entrance fees are doubled, so children have to figure out how much to charge. This game also provides literacy experiences, as children move around the board reading directions such as “Roll again,” or “Pay \$2 to see the fireworks.” The game also contains an element of decentering and strategy. When players draw a card that allows them to exchange one of their toll booths for an opponent's, they must decide which one to exchange, based on the relative merits of each choice.

Problems:

This game can take a long time to play. Sometimes children may need to save an unfinished game to complete on another day.

Goals:

1. Counting
2. Addition and Subtraction
3. Literacy
4. Perspective taking
5. Turn taking

Uno

Children are dealt a hand of seven cards, and then take turns placing a card on top of the discard pile to match the card on top in either number or color. Several word cards contain instruction to reverse directions, skip the next player, or draw several cards. Children can figure out strategies (such as the benefit of saving a *wild* card to use to go out). Perspective taking is promoted as children think about the benefits of concealing their cards from their opponents. Uno can be adapted to fit different developmental levels (and a preschool version is also available).

Variations:

- a. Do not use the word cards. Sometimes the word cards, particularly the *Skip* and *Reverse* cards, can be confusing to young children.
- b. Do not use the *Wild Draw Four* cards. Sometimes drawing four cards can be very discouraging to young children and can cause them to lose interest in the game.
- c. Use the *Wild Draw Four* cards, but do not adhere to the rule that you can only play them if you do not have a card of the correct color. The rules governing how one determines if a *Wild Draw Four* card has been played legally or not are too complicated for young children.
- d. Do not keep score. Simply play that the first person to get rid of his or her cards is the winner.

e. Do not invoke the rule that a player has to say “Uno!” when he or she has only two cards. This is often hard for young children to remember.

Goals:

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|-----------------------|-------------------|-----------------------------------------------|
| 1. Number recognition | 3. Reading | 5. Classification (by word, color, or number) |
| 2. Color recognition | 4. Directionality | 6. Perspective taking |

Sorry

Children take turns drawing a number card from a pile and moving their markers around the board from their own start space to their own home space. Sorry offers opportunities for a myriad of number experiences. Children learn to recognize the number cards and count the correct number of spaces on the board (one-to-one correspondence). They learn to think about the board as a series of additions and subtractions. Sorry contains ample opportunities for children to reason about number. When children have more than one marker on the board, they must compare the results of each move and decide which marker to move. For example, if they move one marker they may advance 5 spaces, but if they move another, they may land on a “slide” space and get 4 additional spaces, for a total of 9. Many cards offer children a choice between two types of moves (move forward 10 or backward 1, move forward 11 or switch places with an opponent’s marker, move one marker forward 7 or split the move between two markers). In the case of the 7 card, they learn how to decompose the number 7 into two parts (1 + 6, 2 + 5, 3 + 4). Children must count and evaluate the relative merits of different moves. Sorry offers many opportunities for children to develop strategies for winning (for example, having to decide between getting one of their markers out of start or bumping an opponent’s marker back to start). Finally, the Sorry cards must be read, and some of them have long instructions, so children get practice reading.

Variations:

- a. Do not adhere to the rule that you can only get out of start with a 1 or a 2 card. Young children often become frustrated if other players have gotten out of start and they are stuck there.
- b. Simply move the number of spaces indicated on the card, disregarding the additional instructions (such as move forward 10 or backwards 1).
- c. Do not use the Sorry rule (bumping a person back to start when you land on an occupied space). Young children often find this very distressing.
- d. Use three markers instead of four, so the game ends more quickly.

Goals:

1. Number recognition (1-12)
2. Counting (1-12)
3. Addition and subtraction
4. One-to-one correspondence
5. Comparison of different consequences of moves, and the development of logical strategies
6. Reading
7. Turn taking