

Intervention Summary

Task Analysis, Activity Analysis, & Modification (TAAAM) – Short Form

Name of activity: Coloring by numbers

Type of modality: Computer Art

Type of play	Solitary: Occupying oneself in purposeful, sustained engagement in activities with objects, toys, materials, or games
Interaction pattern	Extra-individual: Action directed by a person toward an object; requires no contact with another person
# of participants required	One person (Self Task)
Equipment/supplies	Computer (Desktop/Laptop), computer mouse, flat surface (table), chair
Facilities required/environment	Anywhere with a computer, table and chair
Precautions	It can be unhealthy to the eyes to look at a computer for a long duration of time, sitting for too long without any physical activity can become a health issue and technical issues can occur with the computer or any adapted equipment used

Activity Instructions (what the therapist needs to do to facilitate the activity)

1. Therapist to ask client if they are willing to try computer art, coloring with numbers?
2. Instruct client to sit in the chair in the front of the computer.
3. Instruct client to turn the computer on.
4. Instruct client to go to the website “coloritbynumber.com”.
5. Instruct client to choose a picture they would like to color.
6. Explain to the client that you must match the colors to successfully color the picture.
7. Instruct the client to begin coloring.
8. Repeat steps 5 through 7, until client no longer wants to color.
9. Instruct the client to shut down the computer.

Task Analysis (what the client needs to do to perform the activity)

1. Therapist and Client locate a computer (mouse if not attached to computer) and chair
2. Therapist locates the website for the client (coloritbynumber.com)
3. The client will then begin the activity by extending their preferred hand with their palm down on top of the mouse
4. The client will scan the picture using their eyes, head and neck to pick a number located within the picture that they want to color first
5. Client will rotate wrist, palm and fingers over the mouse to direct the cursor to the left side of the computer screen to select the corresponding color of the number the client wished to color in the previous step
6. Client will use their preferred finger to push down on the left button or left side of the mouse to select the color wanted/needed
7. The client will again use the mouse with the rotation of the wrist, palm and fingers to move the mouse and direct the cursor back to the indicated location/number selected in step 4

8. Once cursor is back on top of the selected number within the picture the client will then again use their preferred finger to push down on the left button or left side of the mouse to paste the color selected in step 6 into the corresponding number located in the picture

9. Client will repeat steps #4 through #8 until picture is completely colored in

Activity Analysis (inherent skills within the activity)	
Category	Skills
Primary body position	Sitting down on a chair
Parts of the body required	Fingers and hands (to click on the numbers/ colors on the picture) arms (to move the mouse or wrist to direct finger movements) and eyes (to see where you must place the colors) the head and neck can be used help better scan the computer screen to see the full pictures and to locate where the colors are supposed to be placed within the picture.
Directionality	Person/Object
Physical skills	Active range of motion (Neck/Head, Upper extremities, and Trunk), Dynamic sitting, Static sitting, Fine motor coordination, Flexibility, Grasp (Radial-Digital), Manipulating, Motor control, Muscle strength, pushing with upper extremities, Releasing, Visual-motor integration,
Cognitive skills	Arousal/Alertness, Focused attention, Selective attention, Sustaining Attention, Categorization, Cognitive flexibility, Concentration, Simple Decision Making, Initiation, Insight, Intellectual Knowledge, Judgment, Long Term/Short Term Memory, Orientation: Person, Orientation: Place, Orientation: Topographical, Organization and Planning, Simple Problem Solving, Reading, Recognition: Number, Recognition: Size, Recognition: Shape/Form, Sequencing, Spatial operations, Strategy, Concrete Thought, Writing
Sensory abilities	Auditory function, Tactile function, Visual function
Communication/language skills	Reception to spoken language, Reception of written language, Reception of signs and symbols, Expression of spoken language, Expression of written language, Producing body language
Social and interpersonal skills	Starting a conversation, sustaining a conversation, Handling criticism, Heterogeneity, Homogeneity, Interpersonal interactions, maintaining social space, Physical contact, relating with persons in authority, regulating behavior, forming relationships, terminating

	relationships, Self-expression, Social conduct, Social cues, showing respect & warmth, Showing tolerance
Self-care skills	None Required
Psychological/emotional (possible)	Growth & development, Hope/optimism, Inner strength, Joy, Positive emotions of escalation, Positive emotions of de-escalation, Positive emotions of well-being Sense of competence/mastery, Sense of connection & belonging, Sense of freedom/autonomy, Sense of identity, Anger, Emotional pain, Fear, Frustration, Guilt
Modification (to meet the therapeutic needs of the client)	
How could you simplify the activity?	<ol style="list-style-type: none"> 1. Color a picture with less numbers and colors 2. One could maybe print the pictures out so that one doesn't have to work the computer. 3. Simpler pictures could be used to color 4. Save the computer coloring activity on one's desktop so the site is easier to locate 5. Some assistive technology can be used 6. Therapist can locate the site for the individual
How could you make the activity more complex?	<ol style="list-style-type: none"> 1. Add more numbers and colors to the pictures 2. One could add higher numbers in the picture (100+), rather than the low number (1,2,3) 3. One could add a time frame in which the picture should be completed to make the activity more complex 4. Use more difficult pictures to color
Any Additional Comments	