

Appendix: Activity Learning Objectives

Basic Directions: Tool Room

Level 1 - Follow one-step directions with one element (object) with 80% accuracy. *Click on the dog.*

Level 2 - Follow one-step directions with two elements (color + object) with 80% accuracy. *Click on the red dog.*

Level 3 - Follow one-step directions with two elements (size + object) with 80% accuracy. *Click on the large dog.*

Level 4 - Follow one-step directions with two elements (object + action) with 80% accuracy. *Click on the dog that is bouncing.*

Level 5 - Follow one-step directions with three elements (object + preposition + object) with 80% accuracy. *Click on the dog that is below the boat.*

Level 6 - Follow one-step directions with three elements (size + color + object) with 80% accuracy. *Click on the large, blue dog.*

Level 7 - Follow one-step directions with three elements (color + object + action) with 80% accuracy. *Click on the blue dog that is bouncing.*

Level 8 - Follow one-step directions with three elements (size + object + action) with 80% accuracy. *Click on the large dog that is bouncing.*

Level 9 - Follow one-step directions with four elements (color + object + preposition + object) with 80% accuracy. *Click on the blue dog that is below the boat.*

Level 10 - Follow one-step directions with four elements (size + object + preposition + object) with 80% accuracy. *Click on the large dog that is beside the boat.*

Level 11 - Follow one-step directions with four elements (object + action + preposition + object) with 80% accuracy. *Click on the dog that is bouncing beside the boat.*

Level 12 - Follow one-step directions with five elements (size + color + object + preposition + object) with 80% accuracy. *Click on the small, red dog that is beside the boat.*

Level 13 - Follow one-step directions with five elements (color + object + action + preposition + object) with 80% accuracy. *Click on the blue dog that is bouncing next to the boat.*

Level 14 - Follow one-step directions with six elements (size + color + object + action + preposition + object) with 80% accuracy. *Click on the large, blue dog that is spinning below the boat.*

Sequential Directions: Toy Machine Room

Level 1 - Follow two-step directions with 80% accuracy. *Set the size to large and press start.*

Level 2 - Follow three-step directions with 80% accuracy. *Set the size to small, the color to blue, and press start.*

Level 3 - Follow three-step sequential directions with 80% accuracy. *First, set the size to large. Then, set the color to blue, and finally, press start.*

Level 4 - Follow four-step directions with 80% accuracy. *Set the size to small, the temperature to hot, the shape to square, and press start.*

Level 5 - Follow four-step sequential directions with 80% accuracy. *First, set the size to small. Second, set the temperature to hot. Third, set the shape to square and, finally, press start.*

Level 6 - Follow five-step directions with 80% accuracy. *Set the size to small, the temperature to hot, the shape to square, the color to blue, and press start.*

Level 7 - Follow five-step sequential directions with 80% accuracy. *First, set the size to small. Second, set the temperature to hot. Third, set the shape to square. Then, set the color to blue, and press start.*

Quantitative & Spatial Directions: Toy Inspection Room

Level 1 - Follow directions with a quantitative element (one, two) with 80% accuracy. *Choose two dollhouses.*

Level 2 - Follow directions with a quantitative element (all, both) with 80% accuracy. *Choose both of the dolls.*

Level 3 - Follow directions with a quantitative element (one, two, all, both) with 80% accuracy. *Choose one ball.*

Level 4 - Follow directions with a quantitative element (either, or, and) with 80% accuracy. *Choose a plane or a jump rope.*

Level 5 - Follow directions with a quantitative element (not, except, don't) with 80% accuracy. *Choose all of the toys except the truck.*

Level 6 - Follow directions with a quantitative element (either, or, and, not, except, don't) with 80% accuracy. *Choose either a boat or a duck.*

Level 7 - Follow directions with a spatial element (first, second, third, last) with 80% accuracy. *Choose the second Frisbee®.*

Level 8 - Follow directions with the spatial element *between* with 80% accuracy. *Choose the toy that is between the guitar and the doll.*

Level 9 - Follow directions with a spatial element (first, second, third, last, between) with 80% accuracy. *Choose the first doll.*

Level 10 - Follow directions with a quantitative element (one, two, all, both, either, or, and, not, except, don't) or a spatial element (first, second, third, last, between) with 80% accuracy. *Choose the last guitar.*

Level 11 - Follow directions with a quantitative element (one, two, all, both) and a color (red, blue, yellow, green) with 80% accuracy. *Choose both of the green dolls.*

Level 12 - Follow directions with a quantitative element (one, two, all, both) and a size (small, large) with 80% accuracy. *Choose all of the large rockets.*

Level 13 - Follow directions with a quantitative element (either, or, and, not, except, don't) and a color (red, blue, yellow, green) with 80% accuracy. *Choose either a yellow Frisbee® or a green doll.*

Level 14 - Follow directions with a quantitative element (either, or, and, not, except, don't) and a size (small, large) with 80% accuracy. *Choose all of the toys except the large plane.*

Level 15 - Follow directions with a spatial element (first, second, third, last, between) and a color (red, blue, yellow, green) with 80% accuracy. *Choose the toy that is between the yellow necklace and the green robot.*

Level 16 - Follow directions with a spatial element (first, second, third, last, between) and a size (small, large) with 80% accuracy. *Choose the last small robot.*

Level 17 - Follow directions with a quantitative element (one, two, all, both), a size (small, large), and a color (red, blue, yellow, green) with 80% accuracy. *Choose both of the small, yellow rockets.*

Level 18 - Follow directions with a quantitative element (either, or, and, not, except, don't), a size (small, large), and a color (red, blue, yellow, green) with 80% accuracy. *Don't choose a small, blue robot; choose a large, green Frisbee®.*

Level 19 - Follow directions with a spatial element (first, second, third, last, between), a size (small, large), and a color (red, blue, yellow, green) with 80% accuracy. *Choose the toy that is between the small, green robots.*

Level 20 - Follow directions with a quantitative element (one, two, all, both, either, or, and, not, except, don't) or a spatial element (first, second, third, last, between), a size (small, large), and a color (red, blue, yellow, green) with 80% accuracy. *Choose the third small, red purse.*

Temporal Directions: Packing Room

Level 1 - Follow two-step directions with the temporal term *before* in the second clause of the sentence with 80% accuracy. *Put a train in the box before you put a duck in the box.*

Level 2 - Follow two-step directions with the temporal term *before* in the first clause of the sentence with 80% accuracy. *Before you put a robot in the box, put a dollhouse in the box.*

Level 3 - Follow two-step directions with the temporal term *before* in the first or second clause of the sentence with 80% accuracy. *Before you put a drum in the box, put a truck in the box.*

Level 4 - Follow two-step directions with the temporal term *after* in the first clause of the sentence with 80% accuracy. *After you put a robot in the box, put a doll in the box.*

Level 5 - Follow two-step directions with the temporal term *after* in the second clause of the sentence with 80% accuracy. *Put a doll in the box after you put a plane in the box.*

Level 6 - Follow two-step directions with the temporal term *after* in the first or second clause of the sentence with 80% accuracy. *After you put a train in the box, put a Frisbee® in the box.*

Level 7 - Follow two-step directions with the temporal terms *before* and *after* in the first or second clause of the sentence with 80% accuracy. *Before you put a robot in the box, put a dollhouse in the box.*

Level 8 - Follow two-step directions with the temporal term *before* in the second clause of the sentence and a color (red, blue, yellow, green) with 80% accuracy. *Put the red skate in the box before you put the green guitar in the box.*

Level 9 - Follow two-step directions with the temporal term *before* in the first clause of the sentence and a color (red, blue, yellow, green) with 80% accuracy. *Before you put the blue Frisbee® in the box, put the red duck in the box.*

Level 10 - Follow two-step directions with the temporal term *before* in the first or second clause of the sentence and a color (red, blue, yellow, green) with 80% accuracy. *Before you put the red jump rope in the box, put the yellow horse in the box.*

Level 11 - Follow two-step directions with the temporal term *after* in the first clause of the sentence and a color (red, blue, yellow, green) with 80% accuracy. *After you put the green robot in the box, put the yellow Frisbee® in the box.*

Level 12 - Follow two-step directions with the temporal term *after* in the second clause of the sentence and a color (red, blue, yellow, green) with 80% accuracy. *Put the yellow doll in the box after you put the blue plane in the box.*

Level 13 - Follow two-step directions with the temporal term *after* in the first or second clause of the sentence and a color (red, blue, yellow, green) with 80% accuracy. *After you put the blue rocket in the box, put the green dinosaur in the box.*

Level 14 - Follow two-step directions with the temporal terms *before* or *after* in the first or second clause of the sentence and a color (red, blue, yellow, green) with 80% accuracy. *Before you put the blue Frisbee® in the box, put the red duck in the box.*

Conditional Directions: Shipping Room

Level 1 - Follow directions that include one element (object) in a conditional clause with 80% accuracy. *If a doll is in the box, put the box on the truck.*

Level 2 - Follow directions that include two elements (color + object) in a conditional clause with 80% accuracy. *If a green doll is in the box, put the box on the truck.*

Level 3 - Follow directions that include two elements (object + object) in a conditional clause with 80% accuracy. *If a doll and a truck are in the box, put the box on the truck.*

Level 4 - Follow directions that include four elements (color + object + color + object) in a conditional clause with 80% accuracy. *If a green doll and a blue truck are in the box, put the box on the truck.*

Level 5 - Follow directions that include one element (object) in the conditional clause and one element (size) in the main clause with 80% accuracy. *If a doll is in the box, put the box on the large truck.*

Level 6 - Follow directions that include two elements (color + object) in the conditional clause and one element (size) in the main clause with 80% accuracy. *If a green doll is in the box, put the box on the large truck.*

Level 7 - Follow directions that include four elements (color + object + color + object) in the conditional clause and one element (size) in the main clause with 80% accuracy. *If a green doll and a blue truck are in the box, put the box on the large truck.*

Level 8 - Follow directions that include negation and one element (object) in a conditional clause and one element (size) in the main clause with 80% accuracy. *If a doll is not in the box, put the box on the large truck.*

Level 9 - Follow directions that include negation and two elements (color + object) in the conditional clause and one element (size) in the main clause with 80% accuracy. *If a green doll is not in the box, put the box on the small truck.*

Level 10 - Follow directions that include two conditions with one element (object) in each conditional clause and one element (size) in each main clause with 80% accuracy. *If a doll is in the box, put the box on the small truck. If a truck is in the box, put the box on the large truck.*

Level 11 - Follow directions that include two conditions with two elements (color + object) in each conditional clause and one element (size) in each main clause with 80% accuracy. *If a green doll is in the box, put the box on the small truck. If a blue truck is in the box, put the box on the large truck.*

Level 12 - Follow directions that include two conditions (one with negation) with two elements (color + object) in each conditional clause and one element (size) in each main clause with 80% accuracy. *If a green doll is in the box, put the box on the small truck. If a green doll is not in the box, put the box on the large truck.*

Level 13 - Follow directions that include two conditions (one with negation) with one element (object) in the first conditional clause and one element (size) in each main clause with 80% accuracy. *If a doll is in the box, put the box on the large truck; if not, put the box on the small truck.*

Level 14 - Follow directions that include two conditions (one with negation) with two elements (color + object) in the first conditional clause and one element (size) in each main clause with 80% accuracy. *If a green doll is in the box, put the box on the large truck; if not, put the box on the small truck.*