

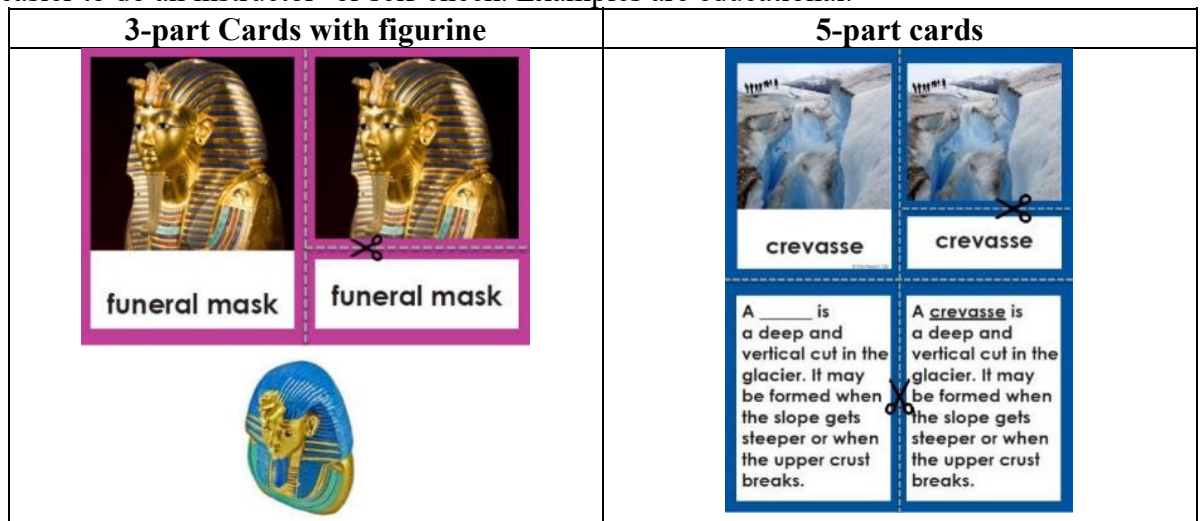
Manipulatives: 3-part and 5-part cards

Issue The default training delivery method is lecture. The main learning style that lecture targets is aural, which is the primary learning style for 30% of the population. The most common primary learning style is visual, representing 65% of the population. Although kinesthetic learners comprise 5% of the population, most people say they “learn” better when they “do” something.

Creating an exercise to practice a new skill can be challenging due to impracticality. Some learners require repetition to facilitate and solidify learning. Many of these learner’s struggle with self-esteem or confidence as well.

Solution Use the 3-part or 5-part cards from the Montessori teaching methodology. This well-proven pedagogical approach has a strong visual and kinesthetic focus. Two of the core Montessori materials are 3-part cards and the 5-part cards. They are used to teach and practice the association of terms with their definitions and images. In some cases, the cards are further augmented with 3D pieces/figurines.

Results The 3-part and 5-part materials are typically printed, cut-apart (see dashed lines), and then laminated. Often a code is penciled on the back of the cards prior to laminating to make it easier to do an instructor- or self-check. Examples are educational.



Classifications The table below lists three classifications for this work sample.

Learning Styles	Intelligences ¹	Example of ²
Visual	Bodily-Kinesthetic	Self-correcting
Kinesthetic	Visual-Spatial	Individual practice
Solitary	Intrapersonal	Emotional support

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¹ Intelligences refers to Gardner’s Multiple Intelligences.

² Reason(s) it was provided as a work sample

Manipulatives: 3-part and 5-part cards, Continued

Parts

The cards are referred to as (clockwise):

Picture Control Card	Has the image and the label together, usually without a line inbetween.	
Picture Card	Image only	
Label Card	Term only	
Definition Control Card	Has a definition or description of the term. Typically the term is bolded, underlined, or both.	
Definition Card	Has the definition or description of the term but the actual term is replaced by a blank.	

How it works

The learner uses the Definition Control Cards and Picture Control Cards to learn about the corresponding term and image.

Picture Practice:

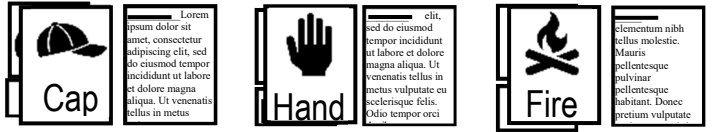



1. Set aside all the control cards.			
2. Lay out the picture cards on a table leaving room for Label Cards and Definition Cards .			
3. Place Label Cards below corresponding Picture Cards .	 Cap	 Fire	 Hand
4. Lay Picture Control Cards on top of correctly matched Label and Picture Cards .	 Cap	 Fire	 Hand
5. Remove all Label Cards that were assigned incorrectly.	 Cap		
6. Repeat steps 3. – 5. until all Picture Cards are covered by a Picture Control Card .	 Cap	 Hand	 Fire

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Manipulatives: 3-part and 5-part cards, Continued

How it works (continued)

Definitions Practice:



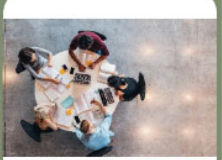

<p>7. Place Definition Cards next to the corresponding set of Picture Card + Label Card + Picture Control Card</p>	
<p>8. Lay Definition Control Cards on top of Definition Cards that are correctly matched to their Picture Control Cards.</p>	
<p>9. Remove all Definition Cards that were assigned incorrectly.</p>	
<p>10. Repeat steps 7. – 9. until all Definition Cards are covered by a Definition Control Card.</p>	

If the matching of Label Cards and Picture Cards is mastered, but the Definition Card matching is not, match the Definition Cards with the Label Cards instead. If speed is important, use a timer once matching becomes consistent.

Additional Example

This example shows 5-part cards to learn and/or practice learning styles.

Here are the cards prior to cutting and laminating:

		<p>Social/ Interpersonal learners work best when they participate in study activities with other people.</p> <p>Social elements help improve their concentration. Debates, quizzing each other, study groups, and interactions are the best methods of study for this learning style. Interestingly, while they work best in groups, they also have the most empathy when it comes to others.</p> <p>Verbal clues for social learners:</p> <ul style="list-style-type: none"> Let's explore our options. Help me understand this. <p>Ratings for other characteristics:</p> <table border="1"> <tr><td>CREATIVITY</td><td>5</td></tr> <tr><td>POPULARITY</td><td>10</td></tr> <tr><td>PATIENCE</td><td>9</td></tr> <tr><td>ENERGY</td><td>8</td></tr> <tr><td>ORGANIZED</td><td>8</td></tr> </table>	CREATIVITY	5	POPULARITY	10	PATIENCE	9	ENERGY	8	ORGANIZED	8	<p>Solitary/ Intrapersonal learners prefer to learn alone using self-study. They may clarify information with instructors; they haven't been able to clarify themselves. They may dislike learning in groups.</p> <p>Recommended study methods include keeping a journal and finding a personal interest in the topics being studied.</p> <p>Verbal clues for solitary learners:</p> <ul style="list-style-type: none"> I'd like some time to think it over. This is what I think or feel about that. <p>Ratings for other characteristics:</p> <table border="1"> <tr><td>CREATIVITY</td><td>8</td></tr> <tr><td>POPULARITY</td><td>1</td></tr> <tr><td>PATIENCE</td><td>8</td></tr> <tr><td>ENERGY</td><td>5</td></tr> <tr><td>ORGANIZED</td><td>5</td></tr> </table>	CREATIVITY	8	POPULARITY	1	PATIENCE	8	ENERGY	5	ORGANIZED	5
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<p>Social/ Interpersonal</p> 	<p>Solitary/ Intrapersonal</p> 	<p>_____ learners work best when they participate in study activities with other people.</p> <p>Social elements help improve their concentration. Debates, quizzing each other, study groups, and interactions are the best methods of study for this learning style. Interestingly, while they work best in groups, they also have the most empathy when it comes to others.</p> <p>Verbal clues for _____ learners:</p> <ul style="list-style-type: none"> Let's explore our options. Help me understand this. <p>Ratings for other characteristics:</p> <table border="1"> <tr><td>CREATIVITY</td><td>8</td></tr> <tr><td>POPULARITY</td><td>10</td></tr> <tr><td>PATIENCE</td><td>9</td></tr> <tr><td>ENERGY</td><td>8</td></tr> <tr><td>ORGANIZED</td><td>8</td></tr> </table>	CREATIVITY	8	POPULARITY	10	PATIENCE	9	ENERGY	8	ORGANIZED	8	<p>_____ learners prefer to learn alone using self-study. They may clarify information with instructors; they haven't been able to clarify themselves. They may dislike learning in groups.</p> <p>Recommended study methods include keeping a journal and finding a personal interest in the topics being studied.</p> <p>Verbal clues for _____ learners:</p> <ul style="list-style-type: none"> I'd like some time to think it over. This is what I think or feel about that. <p>Ratings for other characteristics:</p> <table border="1"> <tr><td>CREATIVITY</td><td>8</td></tr> <tr><td>POPULARITY</td><td>1</td></tr> <tr><td>PATIENCE</td><td>8</td></tr> <tr><td>ENERGY</td><td>5</td></tr> <tr><td>ORGANIZED</td><td>5</td></tr> </table>	CREATIVITY	8	POPULARITY	1	PATIENCE	8	ENERGY	5	ORGANIZED	5
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Manipulatives: 3-part and 5-part cards, Continued

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Here are the learning styles 5-part cards in use. The student is working on step 8.



Solitary/ Intrapersonal

Solitary/ Intrapersonal

_____ learners prefer to learn alone using self-study. They may clarify information with instructors they haven't

Social/ interpersonal learners work best when they participate in study activities with other people.


Social elements help improve their concentration. Debates, quizzing each other, study groups, and interactions are the best methods of study for this learning style. Interestingly, while they work best in groups, they also have the most empathy when it comes to others.

Verbal clues for social learners:

- Let's explore our options.
- Help me understand this.

Ratings for other characteristics:

CREATIVITY	5
POPULARITY	10
PATIENCE	4
ENERGY	9
ORGANISED	6



Social/ Interpersonal

_____ learners work best when they participate in study activities with other people.

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CREATIVITY	5
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ORGANISED	5

Social/ Interpersonal