

 **Activity 4.2.1 Shape Sorting****Purpose**

In a deck of cards, in what group does a King of Hearts belong? If you think it belongs in the group with other kings then you are correct. If you think it belongs with other cards that have hearts on them then you are also right. If you think the King of Hearts is grouped with the red cards or other face cards, you are still correct. There are many ways you can sort, or classify objects.

Classification is grouping items together into categories with similar attributes. The categories can change depending upon your needs or preferences. If a category description changes, items placed in those categories originally may now be placed into different categories. In other words, the same object may be classified two or more ways depending upon the descriptions of the categories.

Materials**Per pair of students:**

- Set of blue paper figures
- Set of red paper figures

Per student:

- Pencil
- *Agriscience Notebook*

Procedure

You will use the paper figures to determine five different ways to classify the figures by defining classifications based on physical characteristics. Use Table 1 on your student worksheet to describe the categories you identified. Sort the figures into different categories and list the number of the figure in each category column you feel it fits for each respective classification.

For example:

- **Object:** Deck of Cards
- **Classification Feature:** Suits
- **Description of the Classification:** Shape of symbol on card
- **Names of Categories:** Clubs, Diamonds, Hearts, and Spades

Conclusion

1. Explain why the same figure can be classified into two different categories.

If the objects have the same color or shape

2. Why is understanding the process of classification of objects important?

So you can tell differences with other objects

3. How do you use classification every day?

By color

Activity 4.2.1 Student Worksheet

Table 1. Classifying Objects					
Classification Feature	Description of the Classification	Names of the Categories Included in the Classification			
color	Sort by color	Pink	blue		
		List the Numbers of the Figures in the Correct Category			
		12	12		
shape	Different shapes	rectangles	triangles	circles	
		List the Numbers of the Figures in the Correct Category			
		12	4	8	
letters	Sort by vowels and consonants	vowels	consonants		
		List the Numbers of the Figures in the Correct Category			
		7	17		
openings	-solid -hallow	solids	hallow		
		List the Numbers of the Figures in the Correct Category			
		20	4		
sides	Sides and no sides	sides	No sides		
		List the Numbers of the Figures in the Correct Category			
		16	4		