

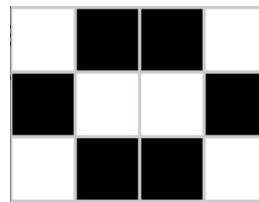
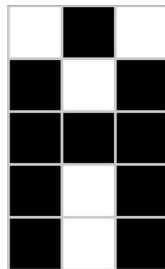
Name(s) \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

## Activity Guide - Invent a B&W Encoding Scheme



### Develop an Encoding Scheme

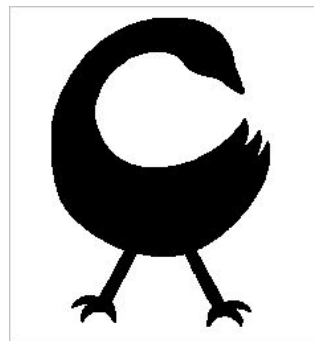
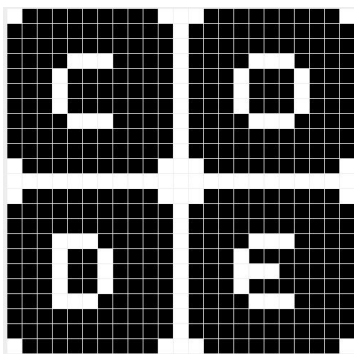
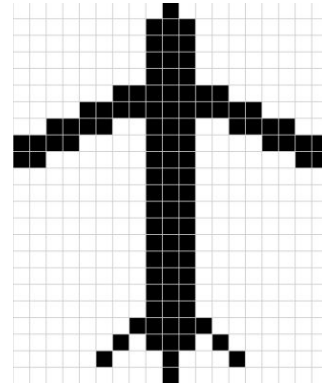
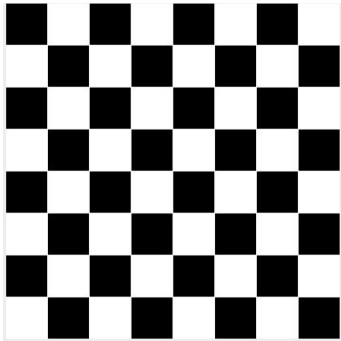
Look at the simple black-and-white images below. With your partner discuss how you might encode images like these in binary.



**Record** your ideas for your encoding in the space below. As you develop your encoding consider:

- What information will need to be included to reconstruct the image?
- How will that information be represented in binary?
- Try out your encoding with the sample images above. Is there any aspect of your encoding that is ambiguous or could lead to improperly structured images? Could you include more information in your encoding to solve this problem.

Now consider these larger images. Does your encoding scheme still work? Why or why not? What would you have to change to make it work?



Record any new ideas you have in the space provided below.