

1. **Card Sort:** [*shuffle well beforehand!*] “Look at all the birds!” [show the cards] “See how different they are? Can you help me put them into piles that go together by nature?”

You can put the piles of different bird kinds in these bins [show the three bins], and you can decide to make one pile, two piles, or three piles—whatever makes the most sense to you!

Put them into piles of different kinds that make sense to you. Tell me when you’re done.” [when done] “Can you tell me about each pile? How did you decide to put birds in the piles?”

2. [*intervention dialogue: discussion of **bird display cases** or **birds cluster poster***]

3. **Induction Sample Choices:** “Pretend you are a scientist who is trying learn about ALL BIRDS. Your job is to pick the best set of birds to look at to help you learn about BIRDS [all the birds in the whole world]. For each question, look at each pair of birds carefully, and pick the best set to look at to help you learn new things about BIRDS.”

[repeat for each page in notebook, filling in the blank with the following as you flip through]

“Here are two sets of BIRDS. You are a scientist who wants to find out if BIRDS _____. Which set of BIRDS do you want to look at to learn about BIRDS?”

- | | | |
|-----------------------|--------------------|----------------------|
| 1. have cancella | 2. have scutella | 3. have podotheca |
| 4. have a ventriculus | 5. are endothermic | 6. have hollow bones |
| 7. have auriculars | 8. have scapulars | 9. have tertials |

4. “Now, instead of trying to learn about all birds, you’re a scientist trying to learn about this kind of bird [show **RAPTORS page**]. These are some RAPTORS. Your job is to pick the best set of birds to look at to help you learn about RAPTORS. Look at each pair of birds carefully, and pick the best set to look at to help you learn new things about RAPTORS.”

[show each **RAPTOR page (for questions 1-3)**]:

[repeat for each page in notebook, filling in the blank with the following as you flip through]

“Here are two sets of BIRDS. You are a scientist who wants to find out if RAPTORS _____. Which set of BIRDS do you want to look at to learn about RAPTORS?”

- | | | |
|------------------|------------------|-------------------|
| 1. have cancella | 2. have scutella | 3. have podotheca |
|------------------|------------------|-------------------|

5. “Now you’re a scientist trying to learn about this kind of bird [show **WATER BIRDS page**]. These are some WATER BIRDS. Your job is to pick the best set of birds to look at to help you learn about WATER BIRDS. Look at each pair of birds carefully, and pick the best set to look at to help you learn new things about WATER BIRDS.”

[show each **WATER BIRDS page (for 4-6)**]:

“Here are two sets of BIRDS. You are a scientist who wants to find out if WATER BIRDS _____. Which set of BIRDS do you want to look at to learn about WATER BIRDS?”

- | | | |
|-----------------------|--------------------|----------------------|
| 4. have a ventriculus | 5. are endothermic | 6. have hollow bones |
|-----------------------|--------------------|----------------------|

6. “Now you’re a scientist trying to learn about this kind of bird [show **SONGBIRDS page**]. These are some SONGBIRDS. Your job is to pick the best set of birds to look at to help you learn about SONGBIRDS. Look at each pair of birds carefully, and pick the best set to look at to help you learn new things about SONGBIRDS.”

[show each **SONGBIRDS page (for 7-9)**]:

“Here are two sets of BIRDS. You are a scientist who wants to find out if SONGBIRDS _____. Which set of BIRDS do you want to look at to learn about SONGBIRDS?”

- | | | |
|--------------------|-------------------|------------------|
| 7. have auriculars | 8. have scapulars | 9. have tertials |
|--------------------|-------------------|------------------|

7. **Card Sort:** same as 2 [*shuffle well again!*] except: “Let’s sort birds one more time.”