## Unit 4 Lesson 9: The Birds

### WU Notice and Wonder: For the Birds (Warm up)

#### Student Task Statement

What do you notice? What do you wonder?



### 1 Home is Where the Bird Lives

#### Student Task Statement

Different types of birds use different types of houses. The table gives you the recommended side lengths for birdhouses of various species.

| type of bird | side lengths of floor | height | volume estimate |
| --- | --- | --- | --- |
| chickadee | 4 in by 4 in | 6 to 10 in |  |
| wood duck | 10 in by 18 in | 10 to 24 in |  |
| barn owl | 10 in by 18 in | 15 to 18 in |  |
| red-headed woodpecker | 6 in by 6 in | 12 to 15 in |  |
| bluebird | 5 in by 5 in | 6 to 12 in |  |
| swallow | 6 in by 6 in | 6 to 8 in |  |

Estimate a possible volume for each birdhouse. Be prepared to explain your reasoning.

### 2 What is the Volume?

#### Student Task Statement

Use the criteria from the table to determine the recommended range of volumes for each type of birdhouse.

| type of bird | side lengths of floor | height | range of volume |
| --- | --- | --- | --- |
| chickadee | 4 in by 4 in | 6 to 10 in |  |
| wood duck | 10 in by 18 in | 10 to 24 in |  |
| barn owl | 10 in by 18 in | 15 to 18 in |  |
| red-headed woodpecker | 6 in by 6 in | 12 to 15 in |  |
| bluebird | 5 in by 5 in | 6 to 12 in |  |
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