CHICKEN COLLISION

Student worksheet

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_

INSTRUCTIONS: Complete all of the tasks on the worksheet after you finish playing *Chicken Collision* or, if you prefer, you can complete the tasks while you are playing the game. Please read the directions for each task carefully and use evidence from the game for your responses.

TASK 1 Based on your practice in the Sandbox Mode of *Chicken Collision*, draw conclusions about the effect of balanced and unbalanced forces on the motion of an object.

Fill in the table:

|  |  |
| --- | --- |
| Type of Force | The motion that results is… |
| When forces are **balanced** |  |
| When forces are **unbalanced** |  |



**Gertie**

Explain what would happen if you applied a force of **20 N to the left** on the door in the image?

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TASK 2 Use what you learned from Level 1 and Level 2 in the *Chicken Collision* game to fill in the blank spaces on the table below.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ChickenID | Initial Direction | Final Direction | Net Force(N) | BalancedOr UnbalancedForces? | Explanation |
|  |  |  | 25 |  |  |
|  |  |  |  |  | There was no movement. |
|  |  |  | 10 |  |  |

TASK 3 After playing the challenge level of *Chicken Collision*, answer the question below.

**Nugget**

**Kevin**