Lab 4-4: Wire Waves Name:

Date:

Block:

Purpose: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Materials: Refer to p. \_\_\_\_\_ of BC Science 8.

Procedure: Refer to p. \_\_\_\_\_-\_\_\_\_\_ of BC Science 8.

Data/Observations/Results:

**Wave Diagrams from Step 5.**

(a) Wave with increased amplitude.

(b) Low frequency, high amplitude wave.

(c) High frequency, high amplitude wave.

(d) Low frequency, low amplitude wave.

Discussion Questions: (Answer p. 141 Analyze #1-3, in full complete sentence.)

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. (a)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (b)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Conclusion: (Answer #2 on p. 141 in “Conclude and Apply”, in full complete sentence.)

1. (a)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (b)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**LAB 4-4: WIRE WAVES SELF ASSESSMENT RUBRIC**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **4** | **3** | **2** | **1** |
| **PAGE SET-UP/ PURPOSE/ MATERIALS/**  **PROCEDURE** | Format is correct. All present. | All/ most present. | Some present. | Most missing or incomplete. |
| **DATA/**  **OBSERVATIONS/RESULTS:** | Diagrams are drawn accurately, labeled and in pencil. | Most diagrams are drawn accurately and labeled. | Some diagrams are drawn accurately and labeled. | Many diagrams are missing or inaccurate. |
| **DISCUSSION**  **QUESTIONS** | All questions are answered neatly and accurately in full sentences. | Most questions are answered accurately. | Some questions are answered accurately. | Many inaccurate/missing answers. |
| **CONCLUSION** | Conclusion neatly and accurately answers the questions in full, complete sentences. Diagrams are accurate, labeled and in pencil. | Conclusion answers all/most of the questions. Most diagrams are drawn accurately and labeled. | Conclusion answers some of the questions. Some diagrams are drawn accurately and labeled. | Conclusion is incomplete or missing. Many diagrams are missing or inaccurate. |
| **SAFETY, SKILL & CLEAN-UP** | Student is on task and follows procedures safely and according to the scientific method. Materials are cleaned up as instructed. | Minimal reminders needed to be on task and follow procedures safely and according to the scientific method. Materials are cleaned up as instructed, with minimal reminders. | Some reminders needed to be on task and follow procedures safely and according to the scientific method. Materials are cleaned up as instructed, with some reminders. | Many reminders needed to be on task and follow procedures safely and according to the scientific method. Materials are cleaned up as instructed, with many reminders. |

TOTAL: /20 = /10