

The Primary Stage of Grades (4-5) School Year 2022- 2023

Name: _____ **answer key** _____

Subject: Science

Worksheet 3: Volume of sound

Unit 7: Sound

Date: / /

Class: **Grade 4 CP (All Sections)**

Objective/s:

- Identify control, independent and dependent variables.
- Draw a bar chart

Faruk and Ali used a sound level meter to measure the volume of different sounds.

They held the sound level meter exactly the same distance away from each source of sound.

These are their measurements of the volume of each sound:

Sound	Volume (dB)
Clapping hands	75
Blowing a whistle	80
Slamming a door shut	90
Class talking	65

After studying their investigation, answer the following questions:

1. Identify the **control**, the **independent** and the **dependent variables** in this investigation.

Control: ... **Distance**

Variables that we must keep the same.

Dependent: ... **Volume** ... (**Variables that we measure**)

Independent: ... **Sound sources**

The variable that we change.

2. Describe two ways in which the boys made their test fair.

1. **They kept the same distance from sources of sound.**

2. **They must keep the same sound level meter.**

3. Draw a bar chart below to represent their results.

