



Subject: Grade 4 Natural Sciences

Topic: Sound energy

Total: 39 Marks

1. C: hit with mallets 4 marks

Explanation:

The *marimba* is a percussion instrument consisting of a set of wooden bars struck with mallets to produce musical tones.

2. false 2 marks

Explanation:

Musical instruments produce sound as their main source of output energy.

3. B: tests hearing and fits hearing aids. 4 marks

Explanation:

An audiologist is a health-care professional specializing in identifying, diagnosing, treating and monitoring disorders of the ear.

If you have a hearing problem then you should visit an audiologist.

4. output 3 marks

Explanation:

The output refers to the amount of something produced by a person, machine, or instrument.

Musical instruments produce sound energy when played.

5. C: percussion 4 marks

Explanation:

Percussion refers to musical instruments played by striking with the hand, stick or beater, or by shaking. Examples are drums, cymbals, xylophones, gongs, bells, and rattles.

6. hit | struck 3 marks

Explanation:

A marimba, like a drum, is a **percussion** instrument.

The wooden bars of a marimba are **hit** to generate a sound.

7. unwanted | loud | noise

6 marks

Explanation:

Noise is usually sound that is unpleasant and unwanted.

8. volume

3 marks

Explanation:

Volume measures how loud or soft a sound is. More input energy makes sounds louder and less input energy makes sounds softer.

9. protect | noise | ears

6 marks

Explanation:

(1) protect - means to keep safe from harm or injury.

(2) noise - sounds of various things or disturbances.

(3) ears - a sense organ used to hear.

10. loud | soft

4 marks

Explanation:

When it is hit hard the vibrations are bigger causing more sound.

Total: 39 Marks