**Name: Date:**

**Digital sound**

**Activity 1: Analogue**

Before you write your description, look at the answer builder tool underneath the help you.

|  |  |
| --- | --- |
| Description:  When sound is created it causes vibrations in the air known as sound waves. These sounds can be futher amplified through the use of devices such as a microphone. | Example: |
| Answer builder:   |  |  |  | | --- | --- | --- | | ⚫ | ⚫⚫ | ⚫⚫⚫ | | What happens when we create sounds? | When these sounds are created what are they called? | What type of devices could be used to output these type of sounds? | | |

**Activity 2: Digital**

Before you write your description, look at the answer builder tool underneath the help you.

|  |  |
| --- | --- |
| Description:  Digital sound is in binary and this is a result of analogue being recorded into samples. These samples need to be in binary form so that the computer understands what to do with this data. | Example: |
| Answer builder:   |  |  |  | | --- | --- | --- | | ⚫ | ⚫⚫ | ⚫⚫⚫ | | What format is digital sound in? | How is it converted into digital sound? | What does digital sound need to be in this format? | | |

**Activity 3: Sampling**

Before you write your description, look at the answer builder tool underneath the help you.

|  |  |
| --- | --- |
| Description:  Analogue sound is recorded at regular intervals into digital form. The more samples taken will lead to a more accurate representation of the original sound. | Example: |
| Answer builder:   |  |  |  | | --- | --- | --- | | ⚫ | ⚫⚫ | ⚫⚫⚫ | | What is being recorded? | How frequently is this sound being recorded? | Explain the impact of high sampling. | | |