

Setting and Changing Tempo & Volume Worksheet

Name: _____

1. What is the difference between the “set tempo” block and the “change tempo” block?
2. What happens if you check the checkbox next to the “tempo” or “volume” blocks?

Answer the following questions using Scratch

Write the scripts below in Scratch to help answer questions 3-9.

```
set tempo to 100 bpm
change tempo by 50
```

3. What is the final tempo after running this script? _____

```
set tempo to 100 bpm
change tempo by -45
```

4. What is the final tempo after running this script? _____

```
set tempo to 60 bpm
change tempo by -10
change tempo by 20
change tempo by 40
change tempo by -50
```

5. What is the final tempo after running this script? _____

```
set tempo to 15 bpm
play drum 48 for 0.2 beats
change tempo by 10
```

6. What is the final tempo after running this script? _____

```
set tempo to 60 bpm
repeat 1
  play drum 48 for 0.2 beats
  change tempo by 20
```

7. What is the final tempo after running this script? _____

```
set tempo to 20 bpm
repeat 2
  play drum 48 for 0.2 beats
  change tempo by 10
```

8. What is the final tempo after running this script? _____

```
set tempo to 20 bpm
repeat 10
  play drum 48 for 0.2 beats
  change tempo by 10
```

9. What is the final tempo after running this script? _____

Write the scripts below in Scratch to help answer questions 10-11.

```
set volume to 100 %
repeat 10
  play drum 48 for 0.2 beats
  change volume by -10
```

10. What is the final VOLUME after running this script? _____

```
set volume to 10 %
repeat 20
  play drum 48 for 0.2 beats
  change volume by 10
```

11. What is the final VOLUME after running this script? _____

Finally...

12. Do there seem to be any limits on how high or low you can get the tempo?

13. Do there seem to be any limits on how high or low you can get the volume?