# Effective Chord Progressions for Memory

Takaoka High School

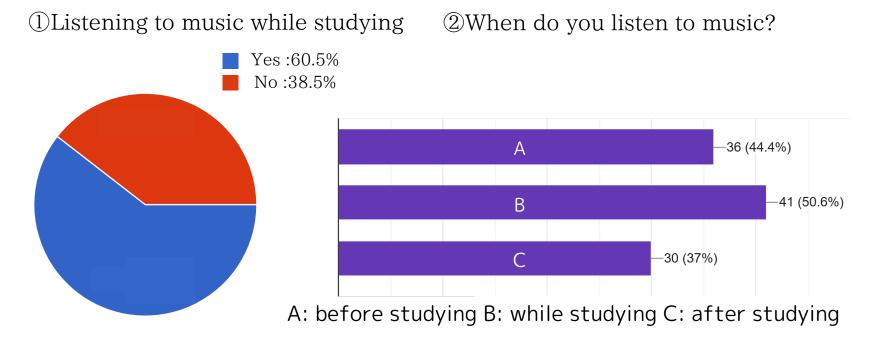
### Aim of Our Research

There are a lot of people who study using various music. However, which is the most effective of all? We decided to investigate the relationship between the rhythm and emotionality of music, especially chord progressions and memory ability.

# Previous Research

Listening to music while working improves memory ability and performance.\*1 Mozart's music did enhance word memory regardless of type of words (positive,negative, or neutral).\*2

# Questionnaire



①People who listen to music are more than people who don't listen to it.

②Most of participants listening to music before or while studying.

Hypothesis sic with simple pr

Music with simple progressions has the greatest memory-enhancing effect.

### Reference source

#### \*1Karashima and Nishiguchi Effectiveness of Listening to Music before Simple Repetitive Tasks Japan Industrial Management Association In2012 \*2The Mozart effect on short-term memory London Metropolitan University In2020

# Experiment

- 1 Making three kinds of music
  (a)monotonous
  (b)bright atmosphere 32participants
  (c)dark atmosphere
  32participants
- ② Having participants memorize26 pairs of words in 3minutes(with no music and with using music)
- ③ Participants do a memory test

### Result

Group	Average	T-test
а	①15.616 ②17.639	t=-2.036 p= 0.045
b	①15.781 ②16.562	t=-1,112 p=0,269
С	①15.375 ②16.218	t=-1.179 p=0.243

(1) no music 2 with using music )

## Consideration

Among these tests, monotonous music, which is allocated the least brain resources is the most effective.

### Conclusion

Music using simple chord progressions is the best to improve memory.