

# Science in Classics

## Exercises on Grammar

### Series 05

# Notation

- Errors are blue.
- Correct versions are green.
- Comments are black.
- Highlights are red.

# Error

- All of these are related to a physical phenomena --- simple harmonic motion.

# Error

- All of these are related to a physical phenomena --- simple harmonic motion.

one phenomenon

two phenomena

# Correction

- All of these are related to a physical phenomenon --- simple harmonic motion.

Better yet

“All of these” are phenomena

But simple harmonic motion is a  
principle

# Better yet

- All of these phenomena are related to a physical principle --- simple harmonic motion.

# Error

- A system will perform simple harmonic motion if the system exists a restoring force.



# Error

- A system will perform simple harmonic motion if **the system exists** a restoring force.

# Comments

## Correct

- $A$  exists.
  - Electrons exist.
  - Dinosaurs do not exist.

## Incorrect

- $A$  exists  $B$

# Correction

- A system will perform simple harmonic motion if there is a restoring force.

# Error

- To explain the questions arose in the first paragraph, we have to learn more about simple harmonic motion.

# Error

- To explain the questions **arose** in the first paragraph, we have to learn more about simple harmonic motion.

second main verb in same clause

# Correction

- To explain the questions that arose in the first paragraph,
- To explain the questions that were raised in the first paragraph,
- To explain the questions raised in the first paragraph,

# Correction

- To explain the questions raised in the first paragraph, we have to learn more about simple harmonic motion.

# Error

- Therefore, this article attempts to give a general description to simple harmonic motion.



# Error

- Therefore, this article attempts to give a general description **to** simple harmonic motion.

wrong preposition

# Correction

- Therefore, this article attempts to give a general description of simple harmonic motion.

# Error

- The motion of such a system is governed by the Newton's law.

# Error

- The motion of such a system is governed by the Newton's law.

△ Newton's laws

# Correction

- The motion of such a system is governed by  $\Delta$  Newton's laws.

# Error

- From the motion, we learn that the displacement changes between the limiting values  $A$  and  $-A$  with time.

# Error

- From the motion, we learn that the displacement **changes** between the limiting values  $A$  and  $-A$  **with time**.  
too far apart

# Correction

- From the motion, we learn that the displacement **changes with time** between the limiting values  $A$  and  $-A$ .



# Errors

- We call this kind of motion damped harmonic motion which shall be explained in the next section.

# Error 1

- We call this kind of motion damped harmonic motion which shall be explained in the next section.

I shall. You will. It will.

# Comment

Other forms indicate determination or authority.

- You shall obey.

# Correction 1

- We call this kind of motion damped harmonic motion which **will** be explained in the next section.

## Error 2

- We call this kind of motion damped harmonic motion ? which will be explained in the next section.

missing comma

# Comment

A qualifier which describes a noun which is already well defined should be separated by a comma.

- My father, who is very tall, ...  
only one father!

## Correction 2

- We call this kind of motion damped harmonic motion, which will be explained in the next section.

# Corrections

- We call this kind of motion damped harmonic motion, which will be explained in the next section.



# Error

- In describing the damped harmonic motion, we have to introduce the resistance term into the equation of motion.

# Error

- In describing **the** damped harmonic motion, we have to introduce the resistance term into the equation of motion.

concerned with general motion; no **the**

# Correction

- In describing  $\Delta$  damped harmonic motion, we have to introduce the resistance term into the equation of motion.

# Errors

- In which case, we call it as a resonance.

# Error 1

- In **which** case, we call it as a resonance.

This is not a subordinate clause.

What is “which”?

# Correction 1

- In **this** case, we call it as a resonance.

## Error 2

- In this case, we call it as a resonance.

I call him John.

## Correction 2

- In this case, we call it  $\langle \text{no "as"} \rangle$  a resonance.



# Corrections

- In this case, we call it a resonance.

# Errors

- The electromagnetic wave which transmitted from radio station induce emf on the antenna.

# Error 1

- The electromagnetic wave which transmitted from radio station induce emf on the antenna.

the station transmits em wave  
em wave is transmitted by the  
station

# Correction 1

- The electromagnetic wave which is transmitted from radio station induce emf on the antenna.

## Error 2

- The electromagnetic wave which is transmitted from  $\Delta$  radio station induce emf on the antenna.

singular specific noun --- the

## Correction 2

- The electromagnetic wave which is transmitted from the radio station induce emf on the antenna.

## Error 3

- The electromagnetic wave which is transmitted from the radio station induce emf on the antenna.

subject-verb disagreement

## Correction 3

- The electromagnetic wave which is transmitted from the radio station induces emf on the antenna.



## Error 4

- The electromagnetic wave which is transmitted from the radio station induces  $\Delta$  emf on the antenna.  
missing **an** (like “**a** force”)

## Correction 4

- The electromagnetic wave which is transmitted from the radio station induces **an** emf on the antenna.

## Error 5

- The electromagnetic wave which is transmitted from the radio station induces an emf on the antenna.

emf in a circuit

## Correction 5

- The electromagnetic wave which is transmitted from the radio station induces an emf **in** the antenna.

# Corrections

- The electromagnetic wave which is transmitted from the radio station induces an emf in the antenna.