



TaranathShikshanaSamsthe
Laxmi Venkatesh Desai college, Raichur
Affiliated to Raichur University, Raichur & Re-accredited by NAAC with B Grade



Index for Add-On Course

Title: Gravitation

Academic Year: 2022-23

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Taranath Shikshana Samsthe



LAXMI VENKATESH DESAI COLLEGE, RAICHUR-584103.
(Affiliated to Raichur University, Raichuri. Re-Accredited by NAAC with "B" Grade)


Dr.Venkatesh B. Devaru, M.Sc.,Ph.D.,MBA.
PRINCIPAL

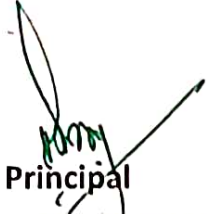
Office of the Principal
Ph:(08532)-240286, 240707
Fax:+918532 240707
e-mail: lvdrcr@gmail.com
Website: www.lvdcollege.com

Date: 3/3/2023

TO WHOMEVER IT MAY CONCERN

This is to certify that, the college has introduced the Add_On course on, "Gravitation" with the duration of 30 hours introduced in 2022-23. The said programme is apart from the existing course curriculum.


Head of the Department
Head of the Physics Department
L.V.D. College,
RAICHUR-584103


Principal
PRINCIPAL
L.V.D. College, RAICHUR-03.

Date: 03.03.2023

To
The Principal,
LVD College, Raichur.

From
Head
Department of Physics

Respected Sir,

Sub: Permission to start an Add_On course

With respect to the above cited subject I, the undersigned request you to grant permission to start an Add-on course titled "GRAVITATION" to B.Sc I/II/III year students. The details of syllabus and duration are enclosed. This course helps students to build up their skills. Kindly grant the permission.

Thanking You,

Permitted
[Signature]
PRINCIPAL
L.V.D. College, RAICHUR-03.

Yours Faithfully,
[Signature]



Taranath Shikshana Samsthe



LAXMI VENKATESH DESAI COLLEGE, RAICHUR-584103.

(Affiliated to Gulbarga University, Kalaburagi. Re-Accredited by NAAC with "B" Grade)

Dr.Venkatesh B. Devaru, M.Sc.,Ph.D.,MBA.
PRINCIPAL

Office of the Principal
Ph:(08532)-240286, 240707
Fax:+918532 240707
e-mail: lvdrcr@gmail.com
Website:www.lvdcollege.com

Date: 24/02/2023

ORDER Sub: Meeting of Board of Studies members

A meeting of the following BOS constituted is hereby convened on 24/02/2023 at 11:00 AM in the Department of Physics, LVD College,Raichur

**BOARD OF APPOINTMENT OF BOS MEMBERS FOR ADD-ONCOURSE
GRAVITATION**

1)	Dr. Yesappa L. Assistant professor of physics University of Agricultural sciences Raichur.	Chairman Assistant Professor of Physics College of Agricultural Engineering UAS, RAICHUR-584 104.
2)	DR. Vinayak Assistant Professor Department of Physics GFGC, Jewrgi	Member Vinayak
3)	Dr.Chakradhar.B Head of the Department Department of Physics LVD College, Raichur	Member Head of the Physics Department L. V. D. College, RAICHUR-584 104

The Chairman and the members are requested to make it convenient to attend the BOS Meeting


PRINCIPAL
PRINCIPAL
L.V.D. College, RAICHUR-03.

DATE: 24.02.2023

To
The Principal,
LVD College,
Raichur.

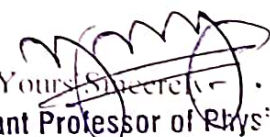
Respected Sir,

Sub: Acceptance to be the chairman of BOS.

with reference to the above-cited subject I Dr. Yesappa L. Assistant professor of physics University of Agricultural sciences Raichur, received your letter of request to be a Chairman of BOS, for the Add-on Course to be conducted by your college.

Hence, I give my consent and accept your request as a BOS Chairman.

Thanking You.


Yours Sincerely,
Assistant Professor of Physics
College of Agricultural Engineering
UAS, RAICHUR-584 104.

DATE: 24.02.2023

To
The Principal,
LVD College,
Raichur.


Respected Sir,

Sub: Acceptance to be a Member of BOS.

with reference to the above-cited subject I. **Dr Vinayak Assistant Professor Department of Physics GFGC, Kalaburagi.** received your letter of request to be a Member of BOS. for the Add-on Course to be conducted by your college

Hence, I give my consent and accept your request as a BOS Member.

Thanking You,


Yours sincerely

course outcomes :

Make it sure that the student learns the concepts given of gravitational force and calculation of gravitational force between any two objects.

▶▶ Gravity as a special case of

gravitation, acceleration due to gravity(g),

▶▶ factors affecting ' g ', weight and difference between mass & weight

To Enroll contact :

•Miss. Chaitra (Department of physics)

•Mrs. Vimala K R (Department of physics)



Taranath Shikshana Samsthe

LAXMI VENKATESH DESAI COLLEGE

Re-Accredited by NAAC with 'B' grade

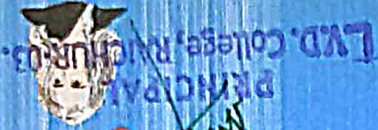
DEPARTMENT OF PHYSICS

2022-23

OFFERS COURSE

ON

GRAVITATION



PRINCIPAL
L.V.D. College, Raichur-03.

IN THIS COURSE

-Terrestrial Gravity: Galileo Analyzes a Cannonball Trajectory, Moving Up: Newton Puts the Cannon on a Very High Mountain, Down into Space: The Cannonball and the Moon, Newton's Universal Law of Gravitation,

-Introduction, Field from a Single Point

Mass, Gravitational Field for Two Masses, The Principle of Superposition, Field Strength at a Point Equidistant from the Two Masses, Gravitational Field from a Ring of Mass, Field Outside a Massive Spherical Shell, Field Outside a Solid Sphere.

-Gravitational Potential Energy near the Earth, Downward and Upward Gravitational Potential Energy in a Two Body System Gravitational Potential Escapes, Potential and Kinetic Energy in a Circular Orbit

Enroll now!

Co-ordinator

Internal Quality Assurance Cell (IQAC), RAICHUR-03, Laxmi Venkatesh Desai College

LaxmiVenkatesh Desai College, Raichur

Affiliated to Gulbarga University, Kalaburagi & Re-Accredited by NAAC with B Grade

Department of Physics

Notice

All the B.Sc I/II/III year Semester students are hereby informed that department of physics is introducing Add-on course titled "GRAVITATION" interested students, should register their name to the course coordinator for the certificate course in physics department at on or before 20-03-2023 1:40 PM to 2:30 PM.

~~Abhinav~~
BCA 1st year

Udy

Hon
Head of the Physics Department
L. V. D. College,
RAICHUR-584 101

SSM
B. ca II year.

Pragya
B.A I year

Rishi

P. Reddy
BCA 2 year

Udy
BSC-I year

SYLLABUS

GRAVITATION

COURSE OUTCOMES.

- Make it sure that the student learns the concepts given Gravitational force and calculation of gravitational force between any two objects.
- Gravitational force as a two body problem.
- Gravity as a special case of gravitation, acceleration due to gravity(g), factors affecting ' g ', weight and
- difference between mass & weight

UNIT – I- DISCOVERING GRAVITY

15hours

Terrestrial Gravity: Galileo Analyzes a Cannonball Trajectory, Moving Up: Newton Puts the Cannon on a Very High Mountain, Onward into Space: The Cannonball and the Moon, Newton's Universal Law of Gravitation, Describing the Solar System: Kepler's Laws, Mathematical Interlude: Ellipses How Newton's Law of Universal Gravitation Explains Kepler's Laws, Kepler's Second Law Kepler's Third Law (well, for circular orbits

UNIT – II- VISUALIZING GRAVITY: THE GRAVITATIONAL FIELD 10hours

Introduction, Field from a Single Point Mass, Gravitational Field for Two Masses, The Principle of Superposition, Field Strength at a Point Equidistant from the Two Masses, Gravitational Field from a Ring of Mass, Field Outside a Massive Spherical Shell, Field Outside a Solid Sphere, Field Inside a Spherical Shell, Field Inside a Sphere: How Does g Vary on Going Down a Mine?

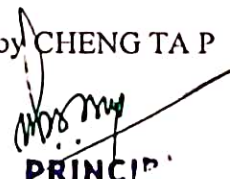
UNIT – III- WORKING WITH GRAVITY: POTENTIAL ENERGY

05hours

Gravitational Potential Energy near the Earth, Onward and Upward Gravitational, Potential Energy in a Two Body System Gravitational Potential Escape!, Potential and Kinetic Energy in a Circular Orbit.

Reference.

1. Gravitation: Foundation and frontiers by padmanabhan.
2. Gravitation(physics series) by charls W Misner and S throne.
3. Principles and Gravitation by berry.
4. Relativity, Gravitation and cosmology: "A BASIC INTRUCTION" by CHENG TA P


PRINCIPAL
L.V.D. College, RAIPUR

TANANATH SHIKSHANA SAMSTHE'S

LAXMI VENKATESH DESAI COLLEGE, RAICHUR.

ADD ON COURSE TIME TABLE FOR B.Sc II, IV & VI SEMESTER, DEPARTMENT OF PHYSICS, 2022-23.

TIME DAYS	09-30 TO 10-20 AM (THEORY)	10-20 TO 12-00 PM (IV SEM LAB)	12-00 TO 12-50PM (THEORY)	12-00 TO 1-40PM (II SEM LAB)	01-40 TO 02-30 PM	02-30 TO 04-10 PM (VI SEM LAB)	04-10 TO 5- 00 PM (THEORY)
Monday					LUNCH BREAK		ADD ON COURSE
Tuesday							ADD ON COURSE
Wednesday							ADD ON COURSE
Thursday							ADD ON COURSE
Friday							ADD ON COURSE
Saturday							ADD ON COURSE

Head of Department.
Head of the Physics Department.
L. V. D. College,
RAICHUR-584 101

Principal
Principal
L.V.D. College, RAICHUR-03.

LaxmiVenkatesh Desai College, Raichur

Affiliated to Gulbarga University, Kalaburagi & Re-Accredited by NAAC with B Grade

Attendance Sheet

Department of Physics																																							
Attendance :2022-23			Value added certificate Course : GRAVITATION														Faculty Name:smt. VIMALA																						
Sl. No	Register No	Name of the Student	27/3/23	28/3/23	29/3/23	30/3/23	31/3/23	1/4/23	2/4/23	3/4/23	4/4/23	5/4/23	6/4/23	7/4/23	8/4/23	9/4/23	10/4/23	11/4/23	12/4/23	13/4/23	14/4/23	15/4/23	16/4/23	17/4/23	18/4/23	19/4/23	20/4/23	21/4/23	22/4/23	23/4/23	24/4/23	25/4/23	26/4/23	27/4/23	28/4/23	29/4/23	30/4/23	31	
1.	11752750	Poornima	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
2.	S2184123	Vishwanatha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3.	S2184125	Pallavi	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4.	S2184132	Vinitha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
5.	S2184134	Ayyappa	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
6.	S2184141	Sindhu	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
7.	S2184148	Shailaja	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
8.	S2184153	Rohith R	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
9.	S2184156	Saroja	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
10.	S2184173	Mahesh	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11.	S2184181	Anilkumar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
12.	S2184195	M Sharath	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Sign of faculty			<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	

<p><i>Vimes</i> Signature of Faculty</p>	<p><i>[Signature]</i> Signature of HOD, Department</p>	<p><i>[Signature]</i> Signature of PRINCIPAL</p>
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L. V. D. College,
RAICHUR-584 101.

L.V.D. College, RAICHUR-03.

Sl NO	Register No	Name of the Student	COURSE TITLE : GRAVITATION													FACULTY NAME:																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
12.	2184133	SHASHIREKHA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
13.	2184141	SINDHU	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
14.	2184153	ROHIT R	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
15.	2184161	GEETANJALI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
16.	2184176	ANNAMMA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
17.	2184193	BOODIBASAVA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
18.	2184206	SHILPA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
19.	2184210	M D FAZIL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
20.	2184220	MD SHAHEBAZ	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
21.	2184225	GOUTAMI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
22.	21842620	KAVYA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
23.	2184313	SUSHMAKUMARI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
24.	2184326	RENUKA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
25.	2184346	AKILA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
26.	2184364	AMARESH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
27.	2184376	NAGARAJ	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
28.	2184396	TANUJA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
29.	2184399	JYOTI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
30.	2184400	VIJAYALAKSHMI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
31.	2184423	VEERESH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Sign of Faculty			Umm	Umm	Umm	Umm	Umm	Umm	Umm	Umm	Umm	Umm	Umm	Umm	Umm	Umm	Umm	Umm	Umm	Umm	Umm	Umm	Umm	Umm	Umm	Umm	Umm	Umm	Umm	Umm	Umm	Umm	

Vimes
Signature of Faculty

Signature of HOD
L.V.D. College,
RAICHUR-584 101.

Signature of PRINCIPAL
L.V.D. College, RAICHUR-03,

LaxmiVenkatesh Desai College, Raichur

Affiliated to Gulbarga University, Kalaburagi & Re-Accredited by NAAC with B Grade

Department of Physics

Report of Add_On course

Department of Physics conducted add-on Course for the interested students from 27.03.2023 to 28.04.2023. Around 32 students were enrolled for the course. After completing this course the students were able to understand about discovery and visualization of gravity and potential energy related to it. Students have taken the benefits from the course.

Duration :30 hrs

Started on: 27.03.2023

Completed on: 28.04.2023

Name of the Faculty : Smt.Vimala

Total No of Students admitted: 31

Total No of classes admitted: 30

Total No of Students benefited: 31

Vimala

Smt. Vimala.

Dept of Physics



Taranath Shikshana Samsthe

LAXMI VENKATESH DESAI COLLEGE RAICHUR

(Re-Accredited by NAAC with 'B' Grade)

Certificate

This is to Certify that Miss. / Mr. ✓ Poornima.....
of B.Sc......has completed the Certificate Course in

GRAVITATION.....

Conducted by the Department of Physics.....from

02-02-2023 to 27-03-2023

Head of the Department



[Signature]
Principal
L.V.D. COLLEGE, RAICHUR



Taramath Shikshana Samsthe

LAXMI VENKATESH DESAI COLLEGE RAICHUR

(Re-Accredited by NAAC with 'B' Grade)

Certificate

This is to Certify that Miss. / Mr. [✓] Vishwanath
of B.Sc. has completed the Certificate Course in
GRAVITATION
Conducted by the Department of Physics from
02-02-2023 to 27-03-2023

Head of the Department



Principal
L.V.D. COLLEGE RAICHUR
Principal



Taranath Shikshana Samsthe
Laxmi Venkatesh Desai College, Raichur.

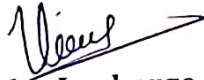
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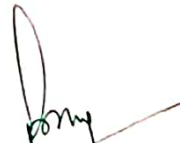
Course Completion Certificate

This Certificate is awarded to Miss/Mr. VINITHA

for successfully completing the course in "GRAVITATION" conducted by Department of Physics in the
year 2022-23.


Faculty In charge


Head of the Department
Head of the Physics Department
L.V.D. College,
RAICHUR-584 101.


Principal
PRINCIPAL
L.V.D. College, RAICHUR-03.

Taranath Shikshana Samsthe's
LAXMI VENKATESH DESAI COLLEGE, RAICHUR.
DEPARTMENT OF PHYSICS

Course Title – Gravitation

Time: 30 Minutes

Max Marks: 40

Instructions to candidates:

1. Answer all the questions.

1. The law of gravitation describes the gravitational force between
 - a. any two bodies having mass
 - b. earth and point mass only
 - c. earth and Sun only
 - d. two charged bodies only

2. The Earth's atmosphere is held by the
 - a. Wind
 - b. Clouds
 - c. Earth's magnetic field
 - d. Gravity

3. Which of the following factors does the acceleration due to gravity on the Earth depend upon?
 - a. Mass of the Body
 - b. Mass of the Earth
 - c. The volume of the Body
 - d. Shape and Size of the Body

4. Which of the following is true when a Mango falls from a Mango Tree?
 - a. Only the Earth attracts the Mango.
 - b. Only the Mango attracts the Earth.
 - c. Both Mango and Earth attract each other
 - d. Both Mango and Earth repel each other

5. The weight of an object on the Moon's surface is
 - a. $1/3^{\text{rd}}$ of the weight on Earth
 - b. $1/5^{\text{th}}$ of the weight on Earth
 - c. $1/6^{\text{th}}$ of the weight on Earth
 - d. $1/2^{\text{nd}}$ of the weight on Earth

6. What is the value of the acceleration due to gravity on the surface of the Earth?
 - a. 9.8 m/s^2
 - b. 18.8 m/s^2
 - c. 4 m/s^2
 - d. 12 m/s^2

7. What holds the Earth's atmosphere?

- a. Gravity
- b. Clouds
- c. Wind
- d. Earth's Magnetic Field.

8. The gravitational force between two bodies does not depend on

- a. their masses
- b. their separation
- c. the product of their masses
- d. the medium between two bodies

9. When a planet orbits the Sun, one of the foci of the elliptical orbit is

- a. The axis
- b. The perihelion
- c. The centre
- d. The Sun

10. What has an eccentricity of zero?

- a. A straight line
- b. A large ellipse
- c. A circle
- d. A small ellipse

11. An Astronomical Unit, or AU, is the average distance between

- a. The Sun and Neptune
- b. The Sun and Earth
- c. The Earth and the Moon

12. Kepler's second law is known as

- a. The Law of Orbits
- b. The Law of Areas
- c. The Law of Periods
- d. The Law of Gravity

13. Kepler's 2nd law deals with

- a. The shape of the planet's orbits
- b. The speed/area the planet travels
- c. The length of time it takes the planet to orbit the sun
- d. Time travel

14. Kepler's third law is known as

- a. The Law of orbits
- b. The Law of Areas
- c. The Law of periods
- d. The Law of gravity

15. The formula for Kepler's third law is

- a. $P^3 \propto a^2$
- b. $P^3 \propto a^3$
- c. $P^2 \propto a^2$
- d. $P^2 \propto a^3$

16. Kepler's first law states that the orbits of the planets are oval in shape or

- a. Ellipses
- b. Perfect circles
- c. Squares
- d. triangles

17. The Kepler's first law is known as

- a. The law of orbits
- b. The law of areas
- c. The law of periods
- d. The law of gravity

18. The farther away a planet is from the sun, the it takes it to orbit the sun once

- a. Longer
- b. Shorter

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