



THE ECLIPSE of MARCH 3, 2007



///////

Open: O:/physique/seconde/eclipse/index.htm A moon eclipse was visible during the night of March 3, 2007.

1- TOTAL LUNAR ECLIPSE

1-		AL LUNAR ECLIPSE
	a.	What is the condition to observe a total lunar eclipse?
	b.	Why can't we observe an eclipse of the moon to each full moon?
	c.	Is the moon perfectly aligned with the sun and the Earth one time during this eclipse?
	•	(see ANIMATION)
2-	COL	OR OF THE MOON
_	a.	Explain why the moon appears red orange during the totality of the eclipse?
	b.	To understand better: click on [see more on this link] (home page) and find paragraph
		11.What is the physical phenomenon which you studied which allows to explain this
		color?
3-	<u>REF</u>	ERENCE FRAMES
	a.	You can observe the rotation of the axis of the Earth shade in the terrestrial reference
		frame, Why?
4-	MEA	ASUREMENTS of distances
	a.	See instructions then do the measurements of the ratio $r = radius$ of the shade of the
		Earth /Moon radius
	b.	Use formulas you can see in « HELP » to find the Moon diameter and the Earth-Moon
		distance.
ı	c.	Using the data provided to evaluate the precision of these two determinations.
		22g 22 22.ta provided to evaluate the precision of these two determinations.