



## DU 10: THE UNIVERSE AND GRAVITY

Self-assessment: 1) read the statements, 2) write the date in the column, 3) think, 4) look at the key and fill in the chart.



This is true for me



This is partly true for me



This isn't true for me

DATE			
I can relate the speed of light to the time it takes to reach the Earth from distant celestial objects and to the distance at which such objects are found.			
I recognize and relate the main astronomical units (AU, light-year, and parsec).			
I can relate the colour of the stars to their higher or lower surface temperature.			
I can recognize and distinguish galaxies, nebulae, and clusters from images.			
I understand that the force of gravity keeps the planets spinning around the Sun, and the Moon around our planet, and justify why this attraction does not lead to the collision of the two bodies.			
I can relate a body's transfer period to its distance from the Sun.			
I can relate the force of gravity that exists between two bodies to their masses and the distance that separates them.			
I can distinguish between mass and weight, and I can calculate the acceleration of gravity value from the relationship between the two magnitudes.			
I can associate the day-night sequence from the Earth's rotational motion.			
I can explain lunar phases and eclipses from the relative positions of the Sun-Earth-Moon system.			
I can recognize the solstices and equinoxes, relating them to the hours of sunlight.			
Record observations, data and results in an organized and rigorous manner, with diagrams and tables, and communicate them orally and in writing.			
I can correctly use physics terminology in oral and written activities.			
I can make a report, using ICT's, on the gravitational force and the associated phenomena.			
I participate, value, and respect individual work and teamwork.			