Astronomy: the phases of the Moon. Coloured engraving with tracing paper by J. Emslie, c.1850.

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TRANSPARENT DIAGRAM OF

THE PHASES OF THE MOON.

The various appearances which the Moon periodically presents in her revolution round the Earth, are | Moon, it has receded 45 degrees from the Sun, and now a portion of its illumined surface is seen in the termed Phases, and arise from the Moon is between the Sun and the Earth, its dark iside is presented to us, and and the Earth. When the Moon is between the Sun and the Earth, its dark iside is presented to us, and it is consequently invisible; in this position it is called the New Moon. Four days after the time of New Moon, it stands



directly opposite the Sun, presenting a complete circular disk; this is the Full Moon, rising when the Sun sets, and shining through the whole night. Proceeding in its course, its illumined surface gradually decreases; approaching the Sun, it becomes a second time gibbons (fig. 6); a Half Moon at its third quarter, assumes a crescent from (fig. 8); and completing its orbit, disappears, becoming a New Moon again gibt becomes a crescent from (fig. 8); and completing its orbit, disappears, becoming a New Moon again gibt becomes a first. The pointed ends of the Moon's figure when a crescent are called its Cuspo r Horns. During the first quarter, to the westward; or that path which it has just described.

The apparent motion of the Moon is that of rising in the east, and setting in the west; but this is owing to the revolution of the Moon is that of rising in the east, and setting in the west; but this is owing to the revolution of the Moon is that of rising in the east, and setting in the west; but this is produced to the revolution of the Moon is that of rising in the east, and setting in the west; but this is orbit; and in the last quarter, to the westward; or that path which it has just described.

The apparent motion of the Moon is that of rising in the east, and setting in the west; but this is produced to the revolution of the Moon is that of rising in the east, and setting in the west; but this is produced and thirty owing to the revolution of the Moon is that of the Sun; and that it produces no heat, for if its rays, concentrated by a powerful mirror, be thrown on the bulb of a thermometer, no effect is perceptible. The mean distance of the Moon from the Earth is about two hundred and thirty seven thousand miles, and its diameter is computed to be 2160 miles.