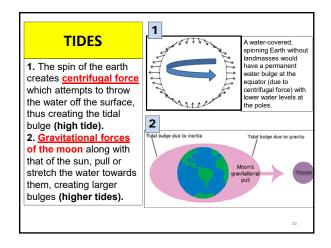
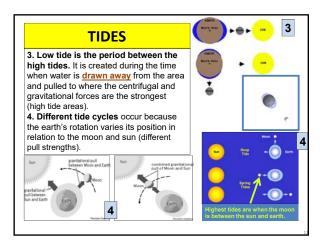
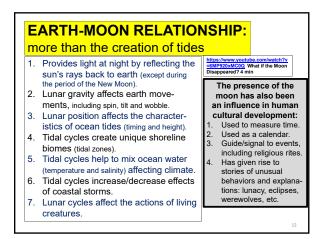


TIDES

- The earth's ocean TIDES are influenced by ROTATION. Rotation creates a centrifugal force and is responsible in part for the location of the "bulge of water" (high tide) on earth's surface.
 - ✓ In conjunction with the positions of the moon and sun, the location and height of the bulge <u>varies</u> every day.
- Tides are created because ocean water has greater mass and when "stretched" by a dynamic forces piles up more easily than smaller bodies of water and land and can be pulled and stretched.
- There are two high tides and two low tides daily.







Rotation and the CORIOLIS EFFECT

CORIOLIS: the apparent deflection of moving bodies <u>not</u> attached to the surface (caused by the earth's rotation).

Amount of deflection is based on the speed of rotation at any latitude.

The earth rotates under the object (or away from its path) so it *seems* that the object is curving off course (deflecting away from a straight path).

