

## **MOON education**

**Peter Barthel** 

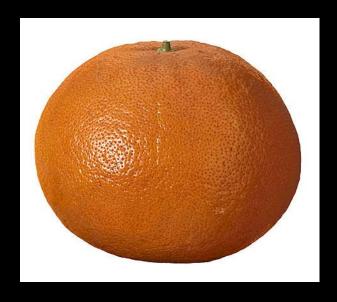


rijksuniversiteit groningen



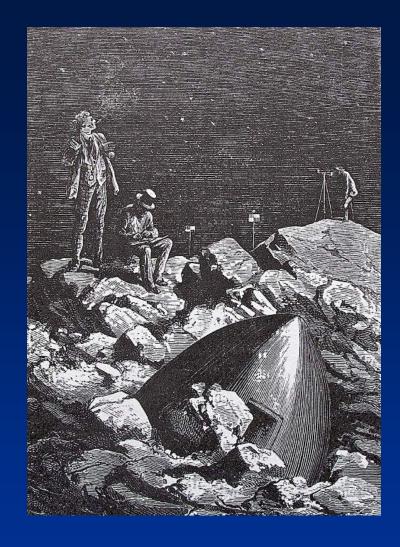
Earth: Moon: Sun =

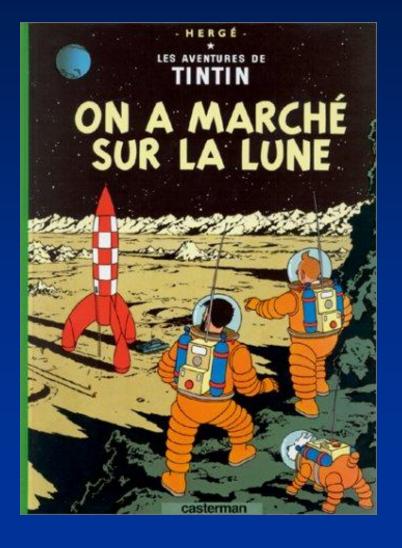
grape-fruit : ping-pong ball @ 3.5m : 10m diameter 'sun' @ 1400m













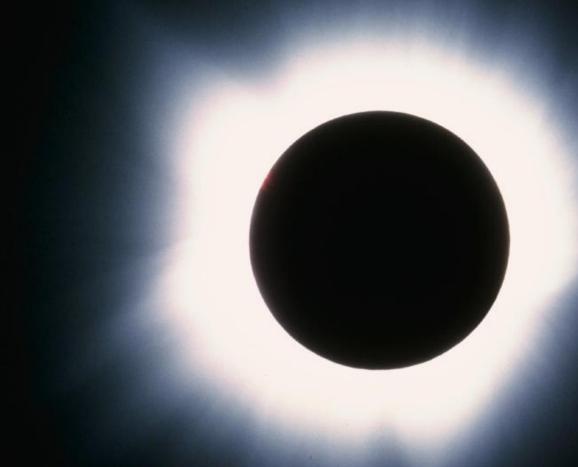
A MONth lasts 29½ day's,

and

12 months therefore last 354 day's .....

# Solar eclips





## **Lunar eclips**



... when the moon passes through the shadow cone of the earth



Tellurium, developed for Montessori-education





# Sun, moon and calendar













# GREETINGS FROM THE MOON





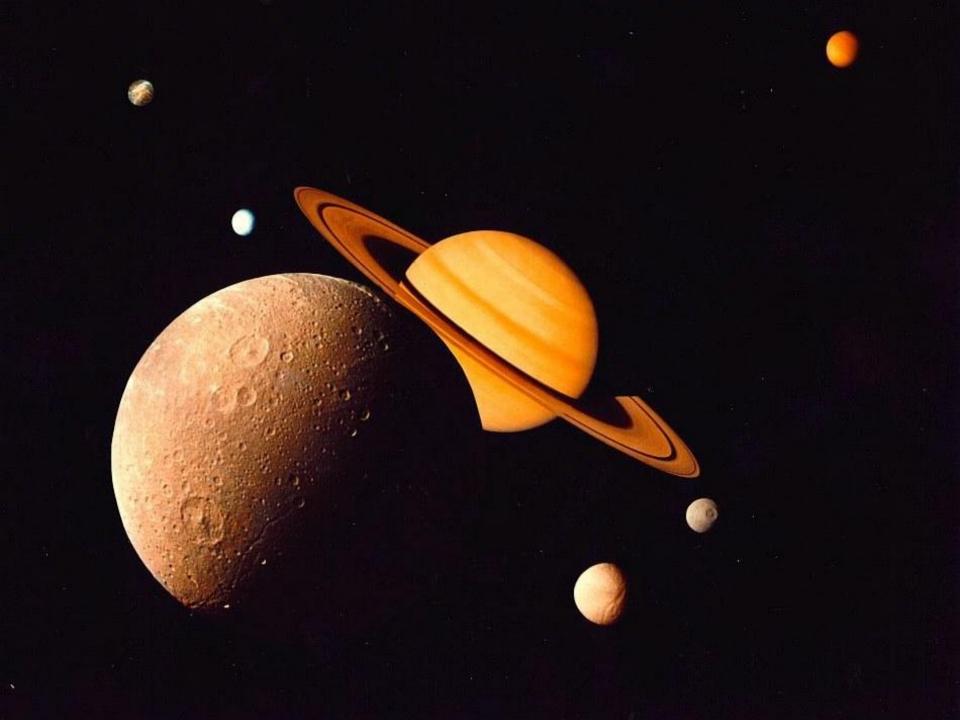
Because the moon's mass is 1/6 of the earth mass, its gravity is 1/6!!



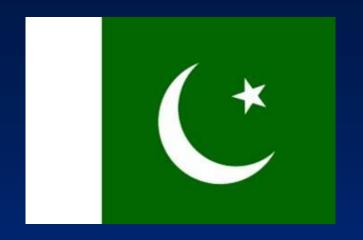






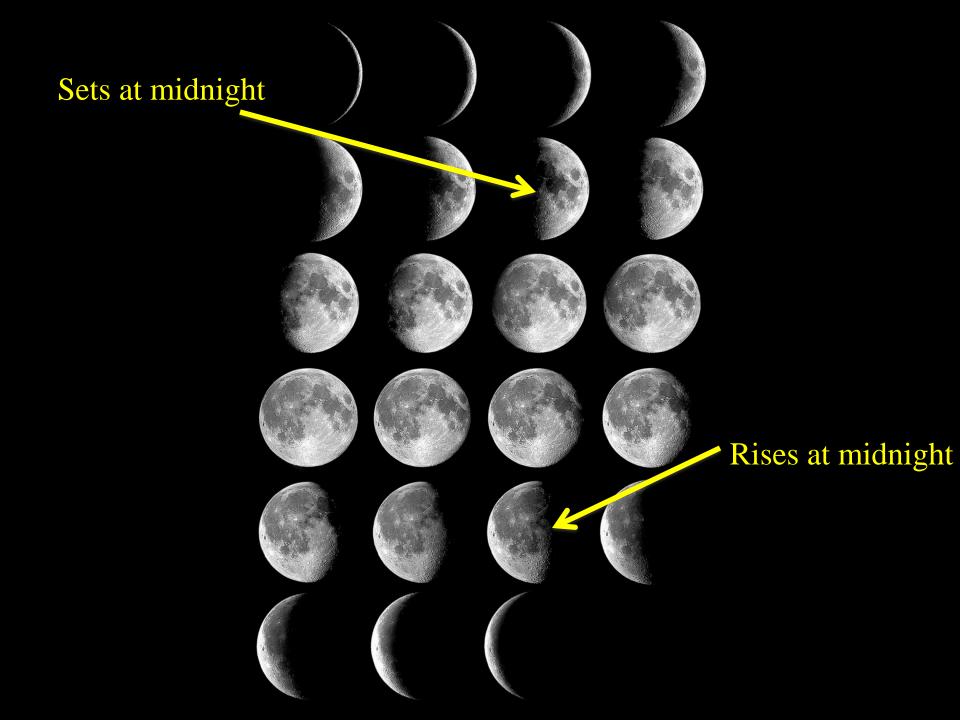






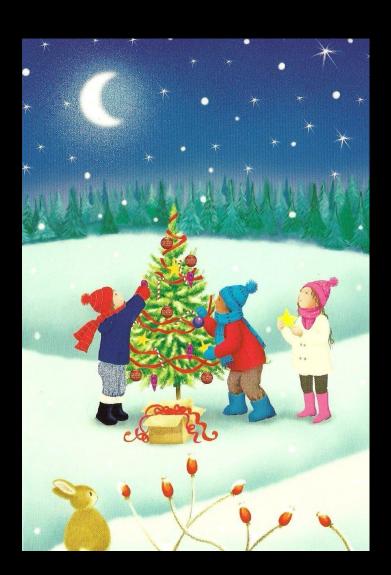


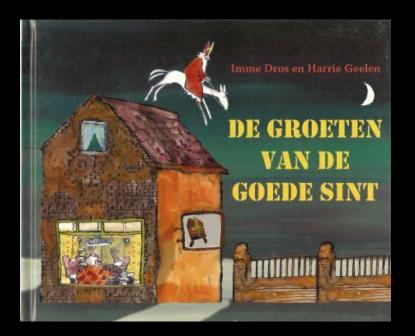




# ... after years of smiling and frowning



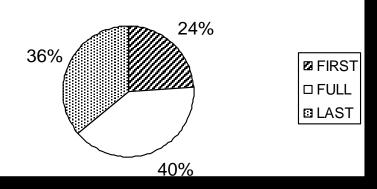




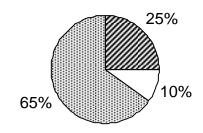


### NL research in winter 2010

Moon phases in Dutch books - Fig.1

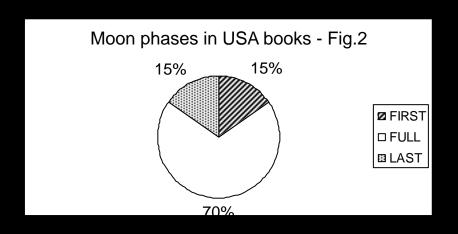


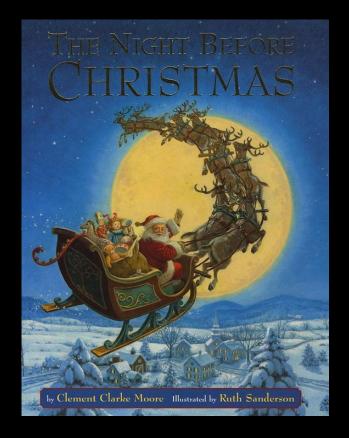
Moon phases Dutch gift wrap - Fig.3





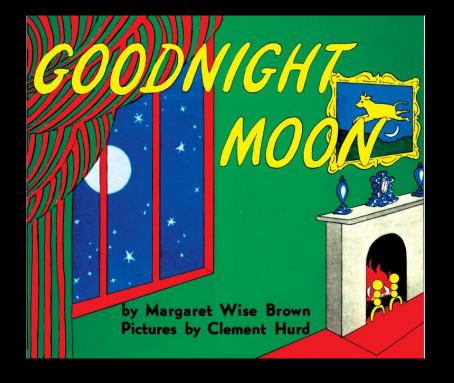
# USA research in New England and California





't Was the night before Christmas, when all through the house, not a creature was stirring, not even a mouse. The stockings were hung by the chimney with care in hopes that Saint Nicholas soon would be there.

The moon on the breast of new-fallen snow gave a luster of midday to objects below.



1947 classic, displaying full moon throughout the night

Good Night

Denver

Arizona

Good Night

Recent series, with kids suffering from insomnia ....

