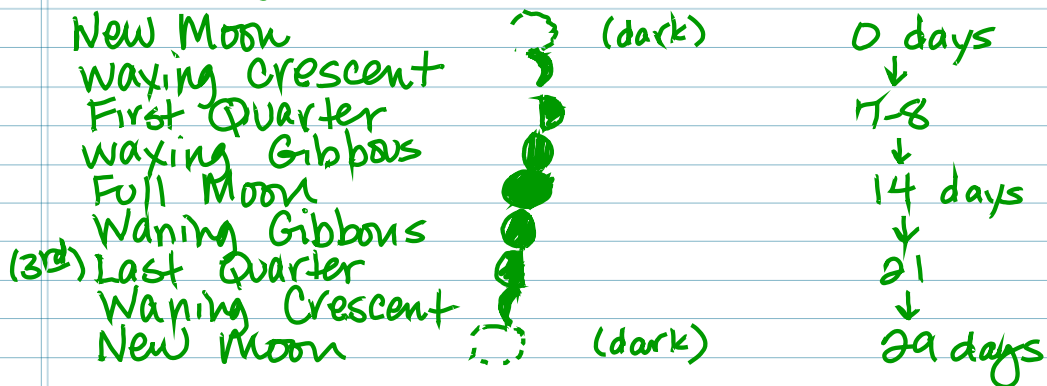


4/27
Science Ch 10

Moon phases (counter-clockwise)
27 days (around the earth)
29 days = lunar cycle



~~Eclipses~~ Eclipses

Solar eclipse → moon's shadow blocks sun
(NEW MOON) (only a small part of earth total eclipse)

Lunar eclipse → Earth's shadow blocks a full moon - everybody on the "night" side of it










Solar + lunar about two weeks apart
~~and~~ same # of times

Moon 5° off tilt of Earth's orbit

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Science Ch 10

Moon phases (counter-clockwise)
27 days (around the earth)
29 days = lunar cycle

New Moon		(dark)	0 days
Waxing Crescent			↓
First Quarter			7-8
Waxing Gibbous			↓
Full Moon			14 days
Waning Gibbous			↓
(3rd) Last Quarter			21
Waning Crescent			↓
New Moon		(dark)	29 days

~~Eclipses~~ Eclipses

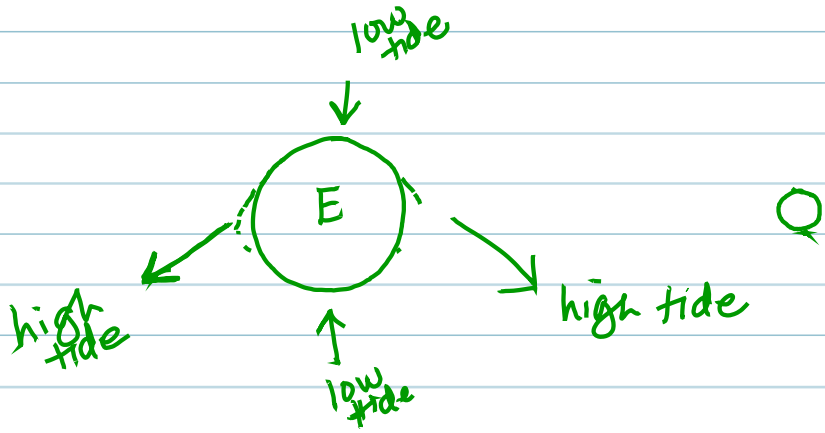
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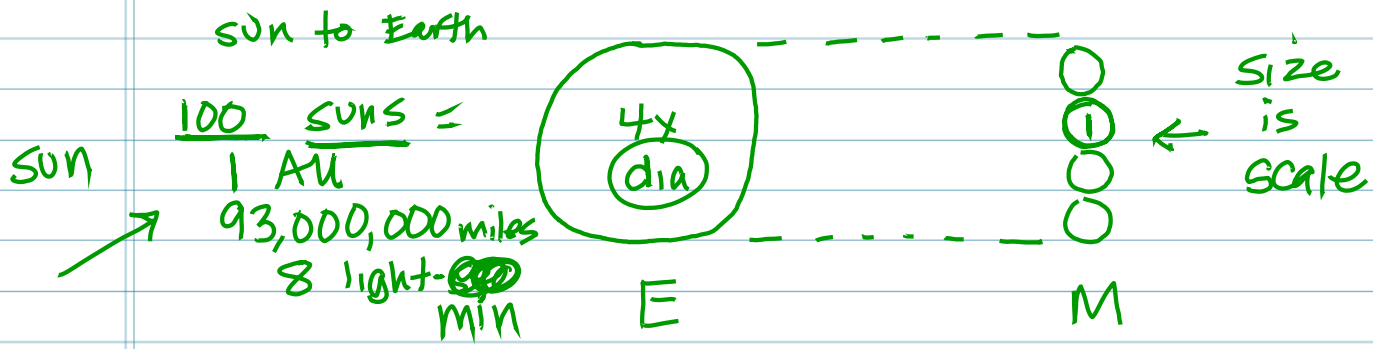
Tides



How many hi. tides per day? 2 tides ^{high} (about 12 hrs apart)

How many low tides per day? 2 tides ^{low} (about 12 hrs)

high or low tide \approx 6 hrs...



NOT TO SCALE

Distance = 30 E out there

250,000 miles

~~MOON~~ MOON is 1/50 of Earth volume...

spring tide (most extreme tides)

↓
moon
(new)



↑
full
moon

* biggest high tides
* lowest low tides
(about every two weeks)

neap tide

* quarter
moon



* lowest high tides
* highest low tides

* quarter
moon