

Astronomy Cheat Sheet

Name: _____

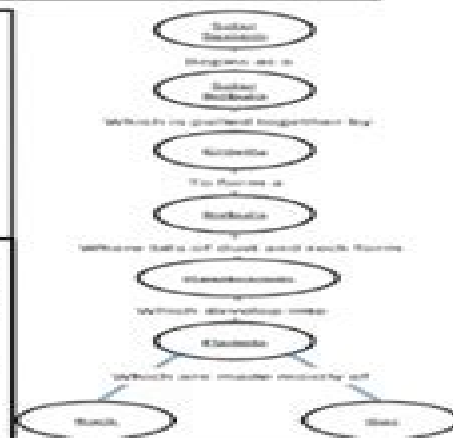
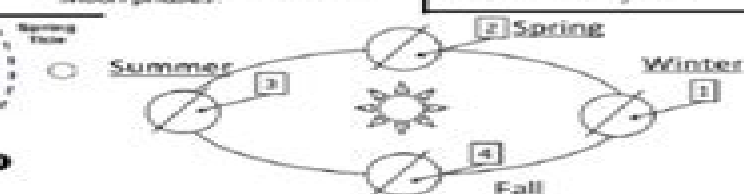
Final Exam Date: _____

- **Rotation** - When an object spins on its axis.
- **Day** - How long it takes for an object rotate one time on its axis.
- **Revolution** - When an object moves around another object... AKA: Orbit.
- **Year** - How long it takes for an object to revolve one time around another object.
- **Kepler's 2nd Law** - The closer an object is to the sun, the faster it appears to move. The further an object is from the sun, the slower it appears to move.

Our sun is composed mainly of hydrogen, helium and carbon.



- Tides are caused by the gravitation pull between the Moon and Earth.
- A high tide occurs daily and is when water levels are increased.
- A low tide occurs daily and is when water levels are decreased.
- A neap tide is when the tides hardly change at all. These occur during Quarter Moon phases.
- A spring tide is when the tides are extremely high and extremely low. These occur during Full and New Moon phases.



Seasons are caused by the angle at which the Sun hits a certain location at a certain time of the year.

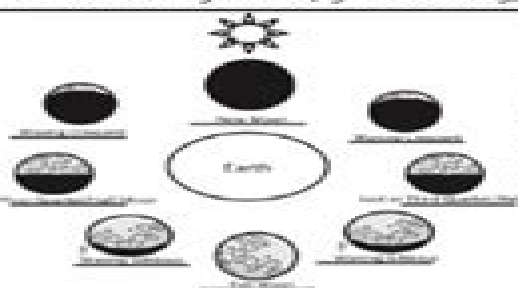
- Sun
- Mercury
- Venus
- Earth
- Mars
- Jupiter
- Saturn
- Uranus
- Neptune
- Pluto

Pluto is no longer considered to be a planet because it's orbit was discovered to cross with Neptune's orbit and Pluto's mass does not greatly exceed the mass of the other objects in its orbit.

Type of Eclipse:	Type of Eclipse:
Solar Eclipse	Lunar Eclipse
Organization of Sun, Moon, and Earth:	Organization of Sun, Moon, and Earth:
The Moon blocks the Sun's light to Earth. The Moon comes between the Earth and the Sun.	The Earth blocks the Sun's light to the Moon. The Moon comes between the Sun and the Moon.
Labelled Illustration:	Labelled Illustration:

Creating a Moon-Phase Diagram:

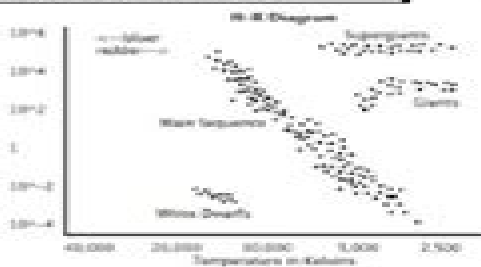
1. Locate the Sun.
2. The phase closest to the sun is the New Moon. Color it completely dark.
3. Go directly across from the New Moon and label the Full Moon. This phase should be left totally light.
4. Go back to your New Moon. Move one step counter-clock-wise.
5. This is the Waxing Crescent. Draw a small thumbnail of light and keep the light pointing towards the sun always.
6. Go straight across from that Moon and draw the Waning Crescent.
7. Then the Quarter Moons.
8. Then the gibbous Moons.
9. Remember: Keep the light pointing towards the Sun at all times.
10. All Waxing Moons (light increasing) are to the left of the Sun.
11. All Waning Moons (light decreasing) are to the right of the Sun.



Reflecting: Large and bounce light from the space object off of a set of mirrors to magnify the image.
Refracting: Smaller and bend the light from the space object through a set of lenses to magnify the image.

- Asteroids are very large rocky, metallic bodies that orbit the Sun.
- Meteors are small rocky bodies that orbit the Sun.
- Meteorites are meteors that have fallen to Earth.

- A **Star** is a self-luminous body, consisting of a mass of gas that holds its own gravity.
- **The Life-Cycle of a Sun-Like Star:** They begin as a nebula with gas and gravity. Then the mass forms a globule in the middle. Due to gravity the globule collapses and forms a spiraling disk of gas and dust. Then it forms a protostar with protoplanets. Then they become an active star with young planets. Then it becomes a solar system with the star in the middle. Then the sun-like star forms a red supergiant, then a planetary nebula, then a white dwarf and finally a black dwarf.
- We are located in the Milky Way galaxy which is a spiral (shape) galaxy. The Milky Way is located in the Local group which is within the Virgo supercluster. Our closest neighboring galaxy is called Andromeda.
- **The Big Bang Theory:** The Universe began as an extremely dense, single point. Due to high amounts of density, it became unstable and exploded. The Universe is constantly expanding with every second.
- **How Do We Know?** Scientists use light signals from telescopes to measure how objects in the universe move. We understand that objects are moving away from us because of Red Shift (longer wavelengths and lower frequencies). If objects were moving towards us, there would be Blue Shift (shorter wavelengths and higher frequencies).



Amount of Time Studied: _____ hr _____ mins

Science Olympiad Solar Systems Cheat Sheet

Shasha Hu



Science Olympiad Solar Systems Cheat Sheet:

NSO Workbook Part IV Chandan Sengupta, National Science Olympiad NCERT Workbook NTSE Reference CBSE ICSE Study Material for State Boards Activity Sheets ISBN 9798865339885 Imprint Independently published Learning is a continuous process Even this process may continue for life time These days learning has become an effort to fit oneself for desired competitive examinations Aspirants are more in number than compared to number of seats available for them We learn many things which have no linkage with the content areas specified for the specific level of the prescribed curriculum We also learn many things which have multifarious relations with the content areas duly specified for the forthcoming examinations It would be better if we fix our sets of curriculum definitely for definite sets of examinations We learn many things and also come across many experiences in our daily life Some of such experiences strike our mind to a greater extent and some of the gained experiences remain as an off sided thing because of the ignorance of our mind Learning as one can go through in life is not any forceful effort of the mind It should have a support of mind body and intellect Then only it can bring variations in our thought process There are so many faculties through which the learning of a student might move on It may be a hybrid faculty combining some of the inter related streams of study such as Astronomy and Physics will jointly make the faculty of Astro Physics Geology and Information Technology will make the faculty of Geo Informatics and many more Parents often claim that their ward is proficient in some of the selected faculties and work with limitations in some other Actually the trend of the study of a learner is a non identifiable trend because of the chance of its alterations in relation to time One cannot guess about the affinity of the brain before the age of 13 of a student Learning affinity and allied success largely depends upon the combination of parenting and related service linings Only parenting and any service lining without parenting may not bring any desired result in time Combination of both the factor can link up the milestones leading ultimately towards success India Government has decided to centralize the process of admissions to various Graduate level Medical Colleges This admission process will be accomplished by the entrance examinations taken up by National Testing Agency or NTA Aspirants having a willingness to attain the Entrance Examination conducted by NTA or other such testing agency should have access to the knowledge system duly prescribed for the prevalent knowledge drilling and information delivery pattern Preparation for such kind of testing is also a job which requires prolonged involvement of the fellow learner The learner with such willingness should have a strong base of knowledge which will ensure the smooth and swift propagation of mind and intellect through the definite path of success We restrict our discussion to the limit of the content areas for which the present workbook is having some inputs Students of class six should have a proper understanding of basic shapes number system daily life problems and ecological concerns Most of the problems are related to daily experiences and normal operational concerns It is expected that students should go on facing day to day problems from science mathematics and humanities They should also address problems related to high order thinking skills They also

participate in online digital classes and social media platforms for exploring relevant information on certain topic Hunting merely for information may not fulfill the purpose in particular Information duly collected should have adequate alignment with facts and figures for ensuring the process of remembering and recollecting such kinds of learning during need We are also incorporating few words from the faculty of mathematics Most of the part of publication is based on the pattern of questions people select for Olympiads Talent Search Examinations and other competitive examinations of similar nature This publication also introduces a learner with some apprehensions of Critical thinking Mathematics deals with some fundamental aspects related to time and space We all learn different rules and related operations starting from our elementary stage of schooling Different students take the subject differently as per their interest and willingness Some students calculate values with adequate speed and some other students do the same with lot of difficulties We also point out the development of fear related to Mathematics in the mind of some of the fellow students We cannot analyse the possible reasons of the development of such fear in the mind of students This development cannot be generalised It is not developed in the minds of all the fellow students Things often become difficult when our fellow ward fail to correlate the linkages of real life problems with that of mathematical ones It is the main reason of the lack of proper orientation in the process of the development of mathematical skills A skillful student can correlate both the aspects of mathematics and real life problems with much efficiency A skillful student of mathematics should be a good observer a perfect planner optimum analyzer and abled calculator Some students can take much time in solving any individual mathematical problem that compared to the time taken by the other fellow from the same peer group This book is designed to expose a student to different types of mathematical problems from the allied fields of the curriculum specified for the middle school It is expected that this workbook can equip a student in different ways and enable them to acquire mathematical skills with a long lasting impression in mind

English Mechanic and Mirror of Science ,1900 **The New York Times Index** ,2008 *English Mechanic and Mirror of Science and Art* ,1899 **Solar System Astronomy Activities Manual** Patrick Brian Hall,2018-12-28 **924 Elementary Problems and Answers in Solar System Astronomy** James Alfred Van Allen,1993 *Solar System* Boston Museum of Science,1987* **Science Olympiad 3** BPI, Science Olympiad *SCI RES BK FOSS SUN MOON and PLANETS CR12 EACH* Lawrence Hall of Science,2010 This module has four investigations that focus on Earth s place in the solar system BK TEA RES FOSS SUN MOON and PLANETS CR12 Lawrence Hall of Science,2011-09 This module has four investigations that focus on Earth s place in the solar system **GDE INV FOSS SUN MOON and PLANETS CR12** Lawrence Hall of Science,2011-09 This module has four investigations that focus on Earth s place in the solar system

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