Constellation Cards & Cheat Sheets



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Please note: The stars included in some constellations, as well as the exact configuration of constellations, can vary by artist and source.

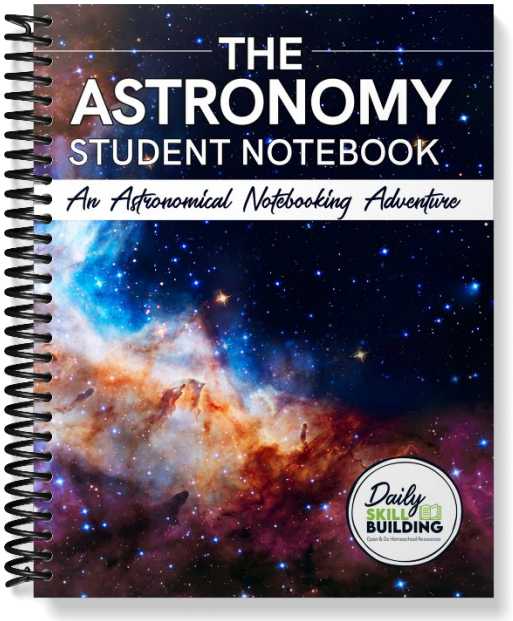
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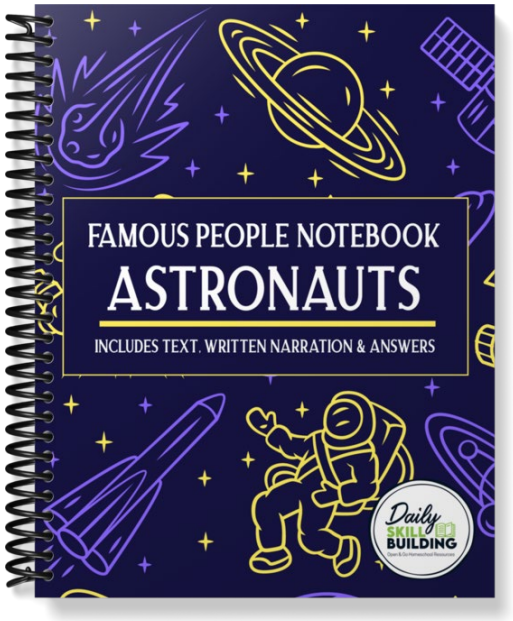
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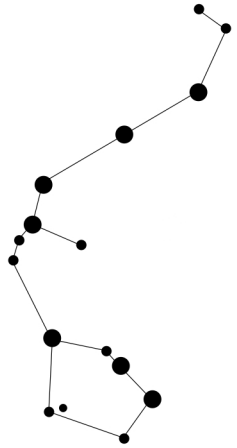
The Astronomy Student Notebook

Using a combination of written narration, drawing, & labeling, The Astronomy Student Notebook will take your student on a journey into our amazing universe. Students will study the heavenly bodies and ponder the mysteries and marvels of the sun, planets, moon, stars, and more.

Famous People Notebook: Astronauts

Famous People Notebook: Astronauts launches your child into an engaging study on famous astronauts and space missions in an easy to use and effective format. Each lesson provides background of an astronaut or space mission followed by open-ended questions to encourage critical thinking. Through written narration your child will explore space reading about Alan B. Shepard, Jr, John H. Glenn, Jr., Neil Armstrong, Edwin (Buzz) Aldrin, and MORE!

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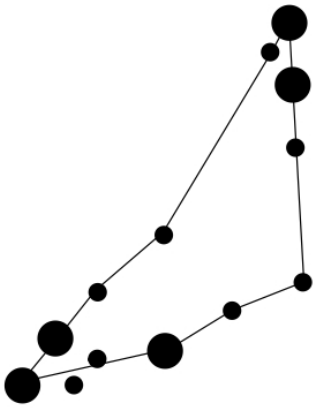
Aquarius

Celestial Hemisphere: Southern

Brightest Star: Sadalmelik

Ascension: 22 hours right ascension

Declination: 10° south declination



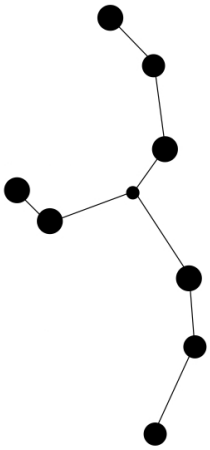
Capricornus

Celestial Hemisphere: Southern

Brightest Star: Deneb Algedi

Ascension: 21 hours right ascension

Declination: 20° south declination



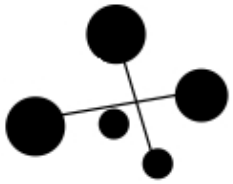
Centaurus

Celestial Hemisphere: Southern

Brightest Star: Alpha Centauri

Ascension: 13 hours right ascension

Declination: 40° south declination



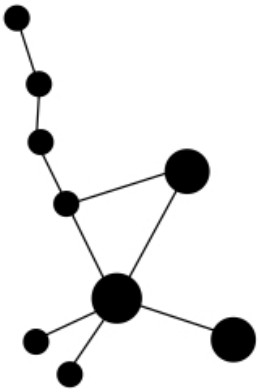
Crux

Celestial Hemisphere: Southern

Brightest Star: Alpha Crucis

Ascension: 12 hours 30 minutes right ascension

Declination: 60° south declination



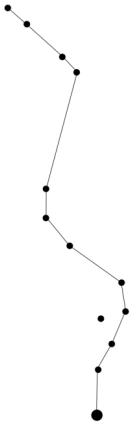
Grus

Celestial Hemisphere: Southern

Brightest Star: Al Na'ir

Ascension: 22 hours right ascension

Declination: 45° south declination



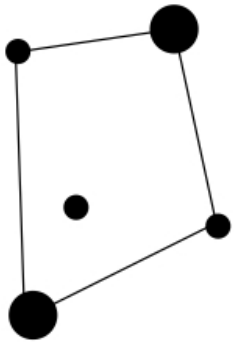
Hydra

Celestial Hemisphere: Southern

Brightest Star: Alphard

Ascension: 8 to 15 hours right ascension

Declination: about 5° north to 30° south declination



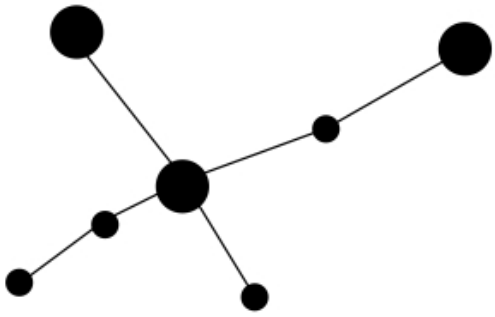
Libra

Celestial Hemisphere: Southern

Brightest Star: Zubeneschamali

Ascension: 15 hours 30 minutes right ascension

Declination: 15° south declination



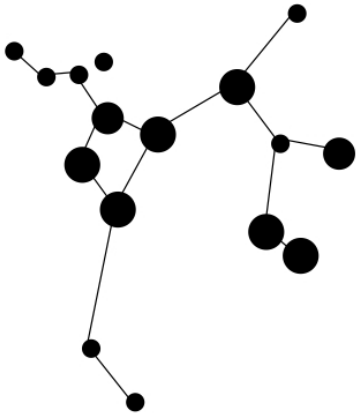
Pavo

Celestial Hemisphere: Southern

Brightest Star: Alpha Pavonis

Ascension: 20 hours right ascension

Declination: 65° south declination



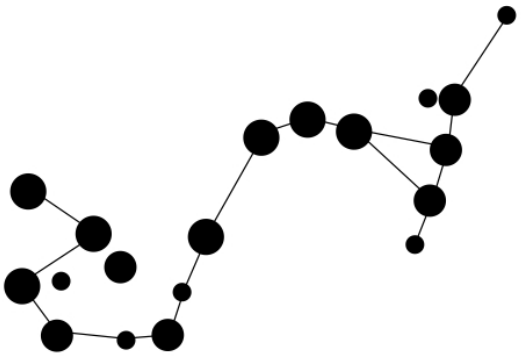
Sagittarius

Celestial Hemisphere: Southern

Brightest Star: Kaus Australis

Ascension: 19 hours right ascension

Declination: 25° south declination



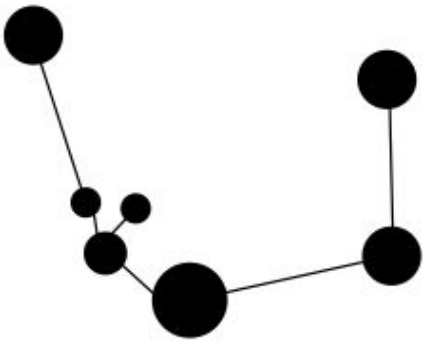
Scorpius

Celestial Hemisphere: Southern

Brightest Star: Antares

Ascension: 16 hours 30 minutes right ascension

Declination: 30° south declination



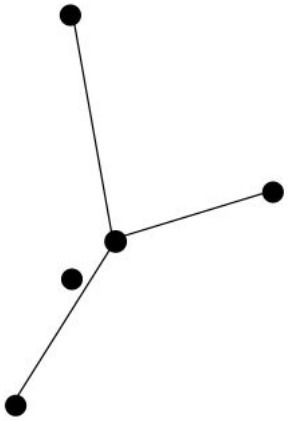
Auriga

Celestial Hemisphere: Northern

Brightest Star: Capella

Ascension: 6 hours right ascension

Declination: 45° north declination



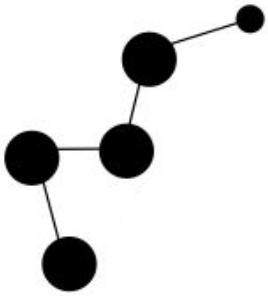
Cancer

Celestial Hemisphere: Northern

Brightest Star: Al Tarf

Ascension: 8 hours 25 minutes right ascension

Declination: 20° north declination



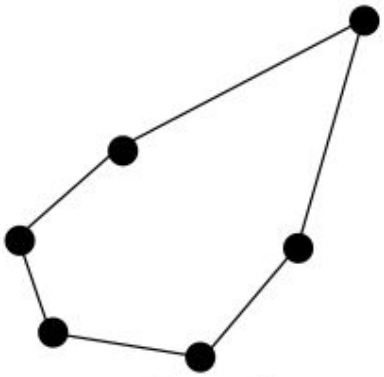
Cassiopeia

Celestial Hemisphere: Northern

Brightest Star: Shedar

Ascension: 1 hour right ascension

Declination: 60° north declination



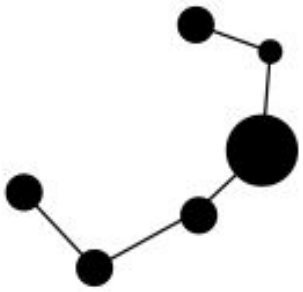
Cepheus

Celestial Hemisphere: Northern

Brightest Star: Alderamin

Ascension: 23 hours right ascension

Declination: 70° north declination



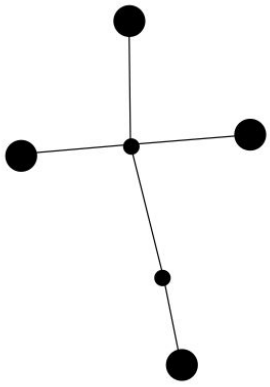
Corona Borealis

Celestial Hemisphere: Northern

Brightest Star: Alphecca

Ascension: 16 hours right ascension

Declination: 30° north declination



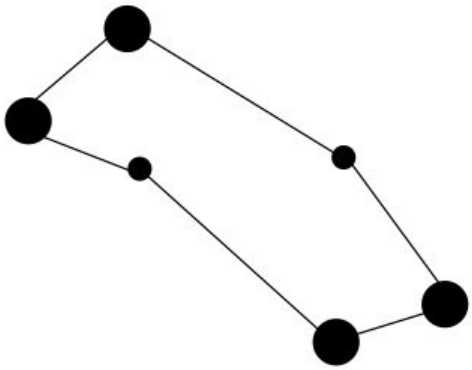
Cygnus

Celestial Hemisphere: Northern

Brightest Star: Deneb

Ascension: 21 hours right ascension

Declination: 40° north declination



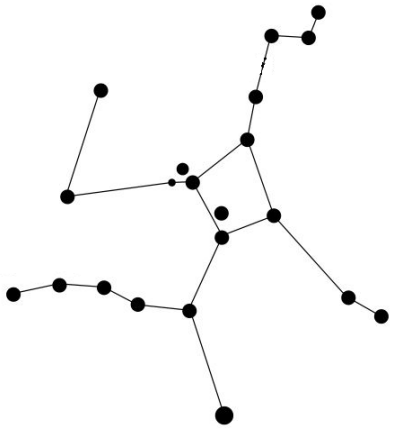
Gemini

Celestial Hemisphere: Northern

Brightest Star: Pollux

Ascension: 7 hours right ascension

Declination: 22° north declination



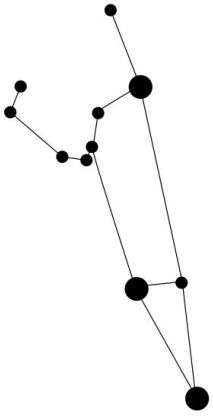
Hercules

Celestial Hemisphere: Northern

Brightest Star: Beta Herculis

Ascension: 17 hours right ascension

Declination: 30° north declination



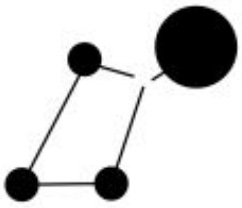
Leo

Celestial Hemisphere: Northern

Brightest Star: Regulus

Ascension: 10 hours 30 minutes right ascension

Declination: 15° north declination



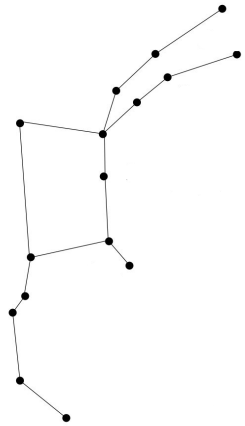
Lyra

Celestial Hemisphere: Northern

Brightest Star: Vega

Ascension: 18 hours right ascension

Declination: 40° north declination



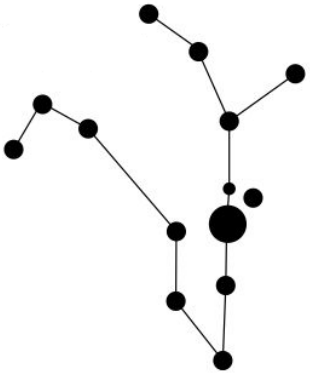
Pegasus

Celestial Hemisphere: Northern

Brightest Star: Enif

Ascension: 23 hours right ascension

Declination: 20° north declination



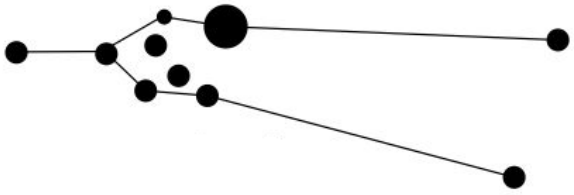
Perseus

Celestial Hemisphere: Northern

Brightest Star: Mirfak

Ascension: 4 hours right ascension

Declination: 40° north declination



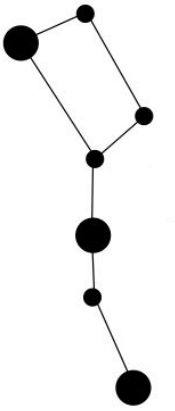
Taurus

Celestial Hemisphere: Northern

Brightest Star: Aldebaran

Ascension: 4 hours 20 minutes right ascension

Declination: 16° north declination



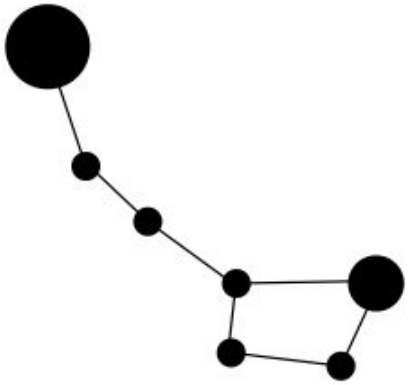
Ursa Major

Celestial Hemisphere: Northern

Brightest Star: Dubhe

Ascension: 10 hours 40 minutes right ascension

Declination: 56° north declination



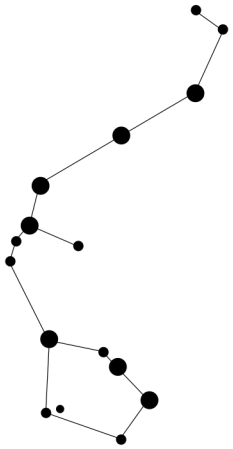
Ursa Minor

Celestial Hemisphere: Northern

Brightest Star: Polaris

Ascension: 15 hours right ascension

Declination: 80° north declination



Aquarius

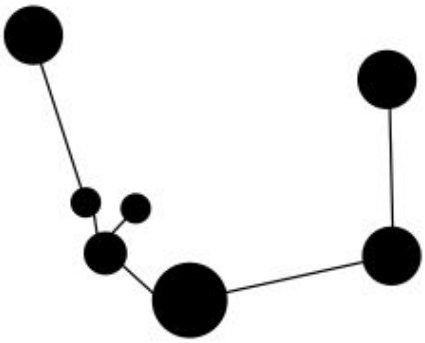
Celestial Hemisphere: _____

Brightest Star: _____

Ascension and Declination: _____

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Auriga

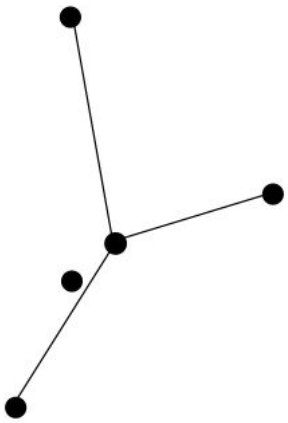
Celestial Hemisphere: _____

Brightest Star: _____

Ascension and Declination: _____

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Cancer

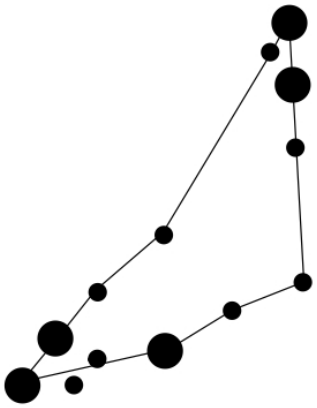
Celestial Hemisphere: _____

Brightest Star: _____

Ascension and Declination: _____

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Capricornus

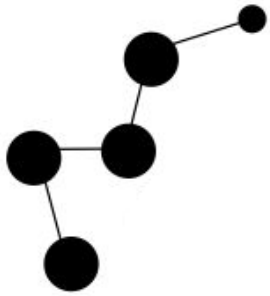
Celestial Hemisphere: _____

Brightest Star: _____

Ascension and Declination: _____

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Cassiopeia

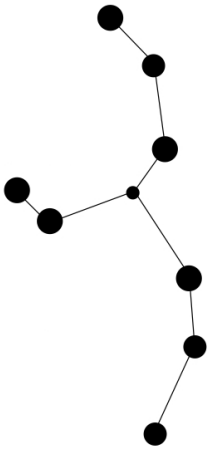
Celestial Hemisphere: _____

Brightest Star: _____

Ascension and Declination: _____

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Centaurus

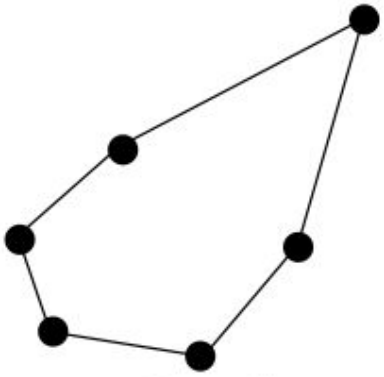
Celestial Hemisphere: _____

Brightest Star: _____

Ascension and Declination: _____

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Cepheus

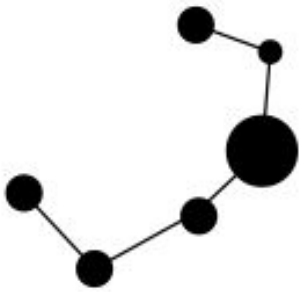
Celestial Hemisphere: _____

Brightest Star: _____

Ascension and Declination: _____

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Corona Borealis

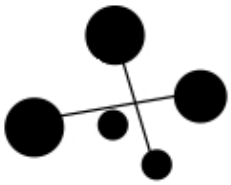
Celestial Hemisphere: _____

Brightest Star: _____

Ascension and Declination: _____

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Crux

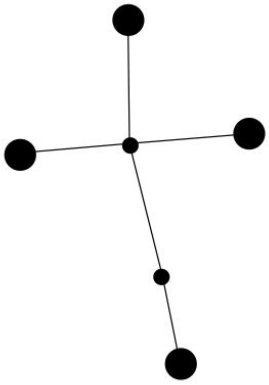
Celestial Hemisphere: _____

Brightest Star: _____

Ascension and Declination: _____

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_____



Cygnus

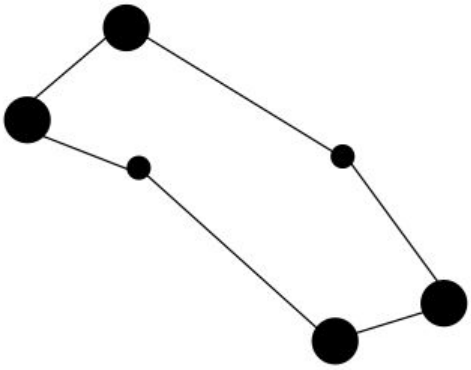
Celestial Hemisphere: _____

Brightest Star: _____

Ascension and Declination: _____

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Gemini

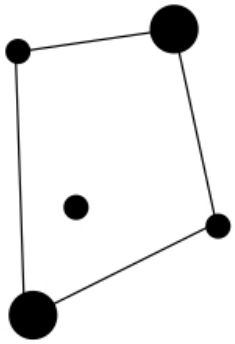
Celestial Hemisphere: _____

Brightest Star: _____

Ascension and Declination: _____

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_____



Libra

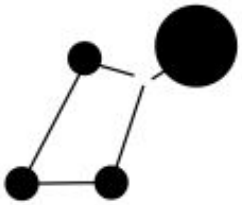
Celestial Hemisphere: _____

Brightest Star: _____

Ascension and Declination: _____

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Lyra

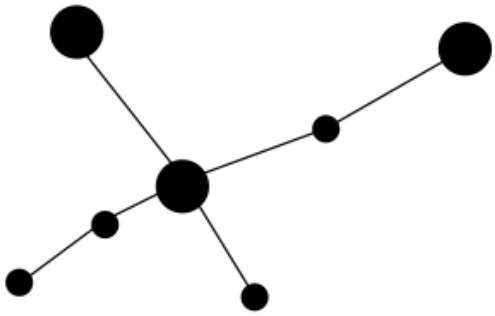
Celestial Hemisphere: _____

Brightest Star: _____

Ascension and Declination: _____

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Pavo

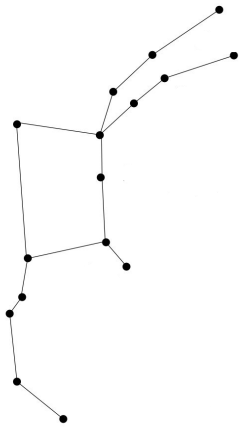
Celestial Hemisphere: _____

Brightest Star: _____

Ascension and Declination: _____

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Pegasus

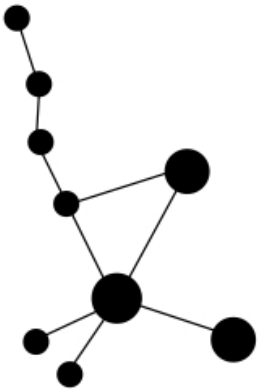
Celestial Hemisphere: _____

Brightest Star: _____

Ascension and Declination: _____

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Grus

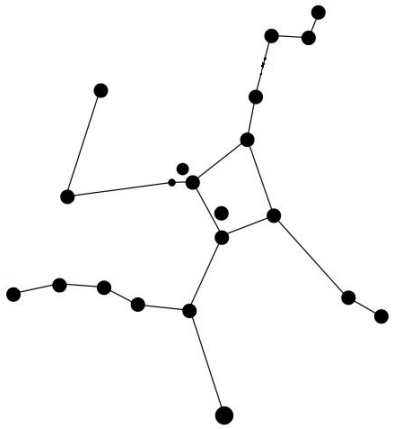
Celestial Hemisphere: _____

Brightest Star: _____

Ascension and Declination: _____

_____

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Hercules

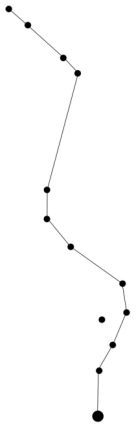
Celestial Hemisphere: _____

Brightest Star: _____

Ascension and Declination: _____

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_____



Hydra

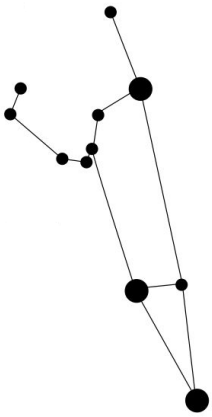
Celestial Hemisphere: _____

Brightest Star: _____

Ascension and Declination: _____

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Leo

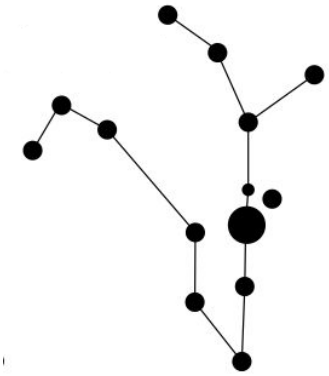
Celestial Hemisphere: _____

Brightest Star: _____

Ascension and Declination: _____

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Perseus

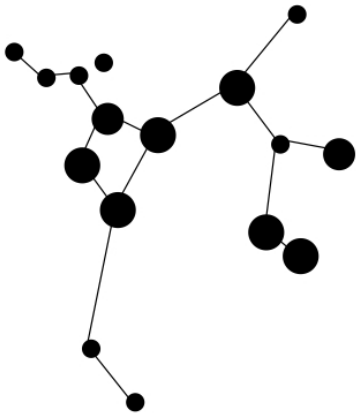
Celestial Hemisphere: _____

Brightest Star: _____

Ascension and Declination: _____

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Sagittarius

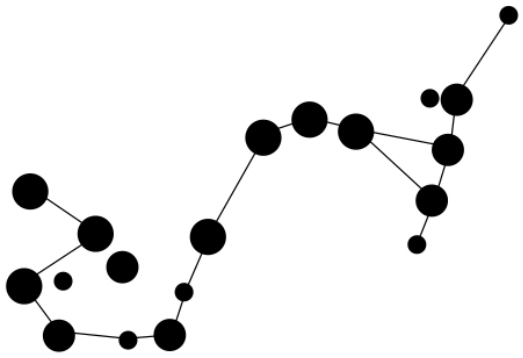
Celestial Hemisphere: _____

Brightest Star: _____

Ascension and Declination: _____

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Scorpius

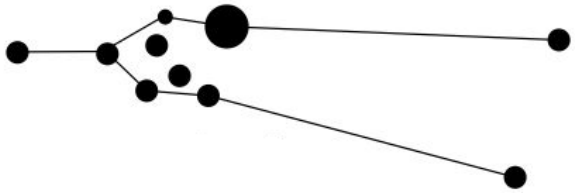
Celestial Hemisphere: _____

Brightest Star: _____

Ascension and Declination: _____

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Taurus

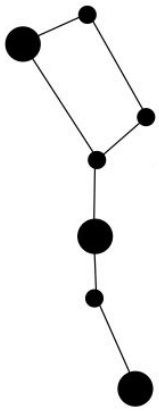
Celestial Hemisphere: _____

Brightest Star: _____

Ascension and Declination: _____

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Ursa Major

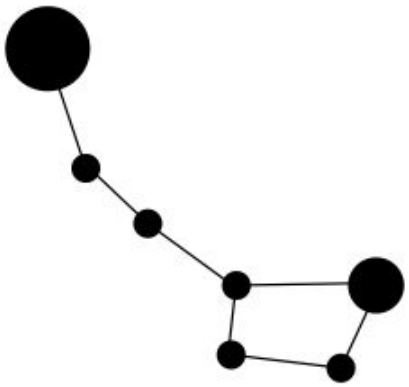
Celestial Hemisphere: _____

Brightest Star: _____

Ascension and Declination: _____

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Ursa Minor

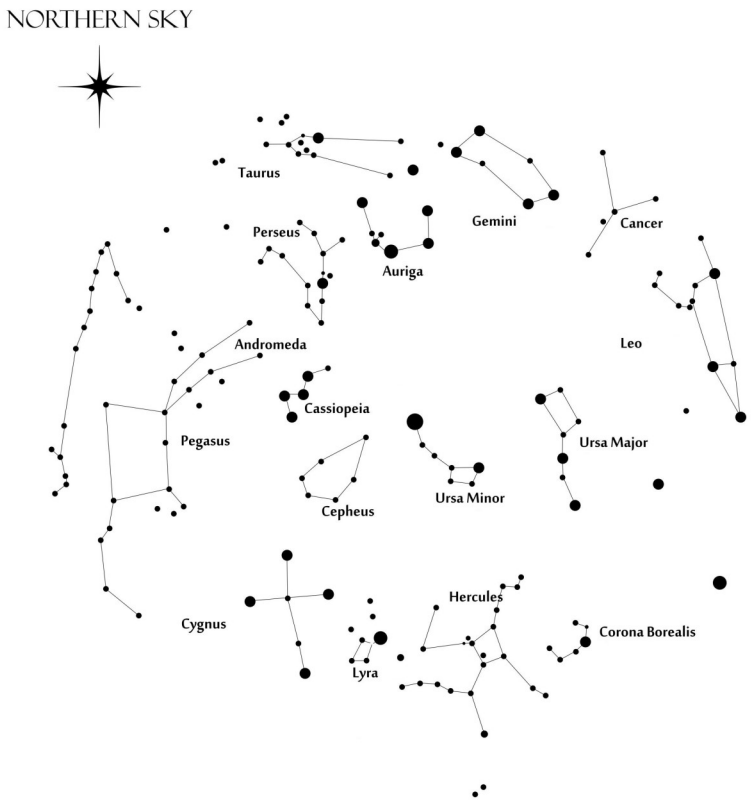
Celestial Hemisphere: _____

Brightest Star: _____

Ascension and Declination: _____

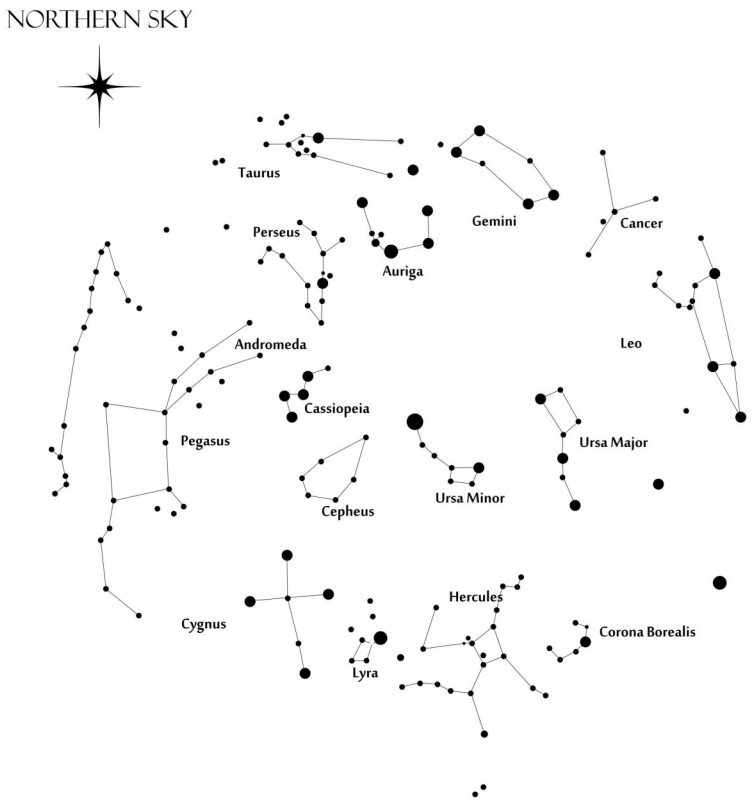
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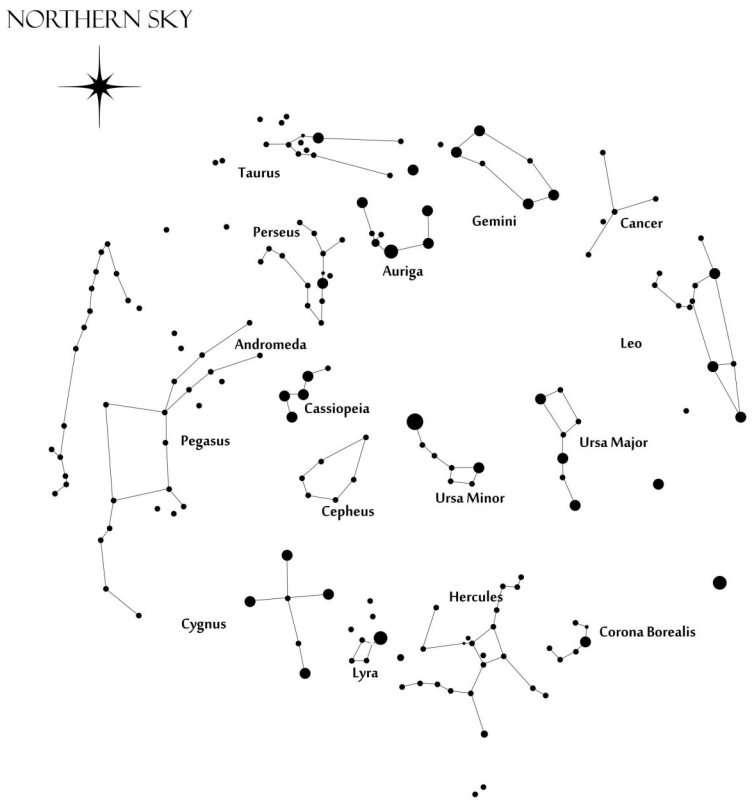
Northern Celestial Hemisphere

Constellation	Location	Brightest Star
Andromeda	1 hour right ascension, 40° north declination	Alpheratz
Aries	3 hours right ascension and 20° north declination	Hamal
Auriga	6 hours right ascension and 45° north declination	Capella
Boötes	15 hours right ascension and 30° north declination	Arcturus
Camelopardalis	6 hours right ascension and 70° north declination	Beta Camelopardalis
Cancer	8 hours 25 minutes right ascension and 20° north declination	Al Tarf
Canes Venatici	13 hours right ascension and 40° north declination	Cor Caroli
Canis Minor	8 hours right ascension and 5° north declination	Procyon
Cassiopeia	1 hour right ascension and 60° north declination	Shedar
Cepheus	23 hours right ascension and 70° north declination	Alderamin
Coma Berenices	13 hours right ascension and 20° north declination	Beta Comae Berenices



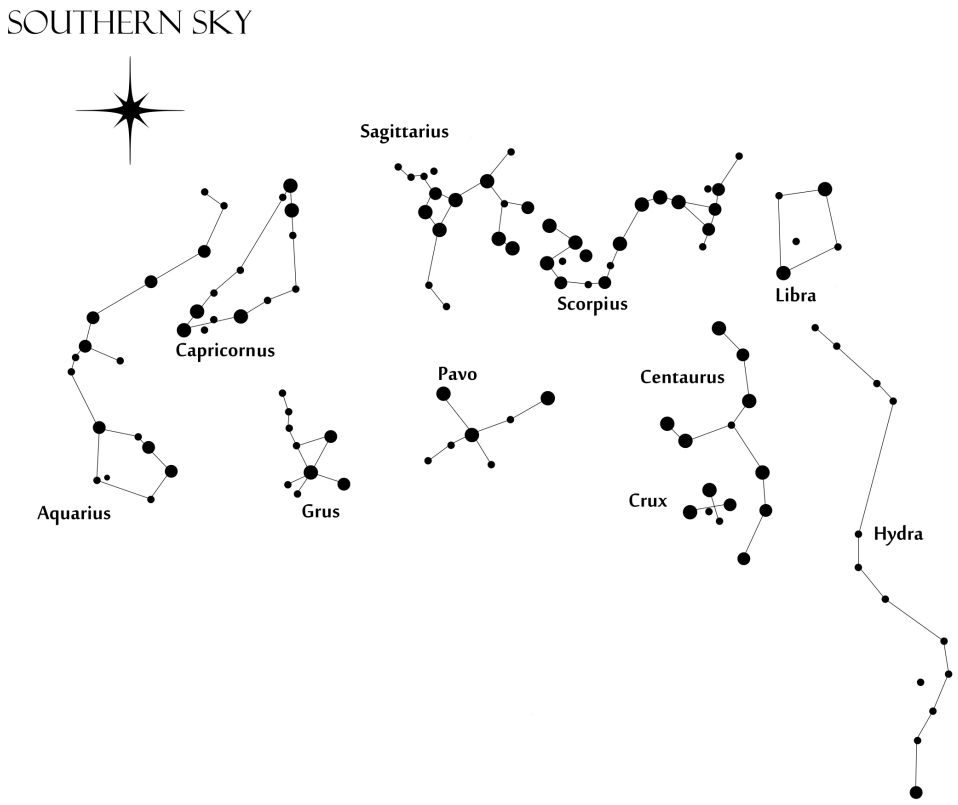
Northern Celestial Hemisphere

Constellation	Location	Brightest Star
Corona Borealis	16 hours right ascension and 30° north declination	Alphecca
Cygnus	21 hours right ascension and 40° north declination	Deneb
Delphinus	21 hours right ascension and 10° north declination	Rotanev
Draco	18 hours right ascension and 70° north declination	Eltanin
Equuleus	21 hours right ascension and 10° north declination	Kitalpha
Gemini	7 hours right ascension and 22° north declination	Pollux
Hercules	17 hours right ascension and 30° north declination	Beta Herculis
Lacerta	22.5 hours right ascension and 45° north declination	Alpha Lacertae
Leo	10 hours 30 minutes right ascension and 15° north declination	Regulus
Leo Minor	10 hours right ascension and 35° north declination	Leonis Minoris
Lynx	8 hours right ascension and 50° north declination	Alpha Lyncis



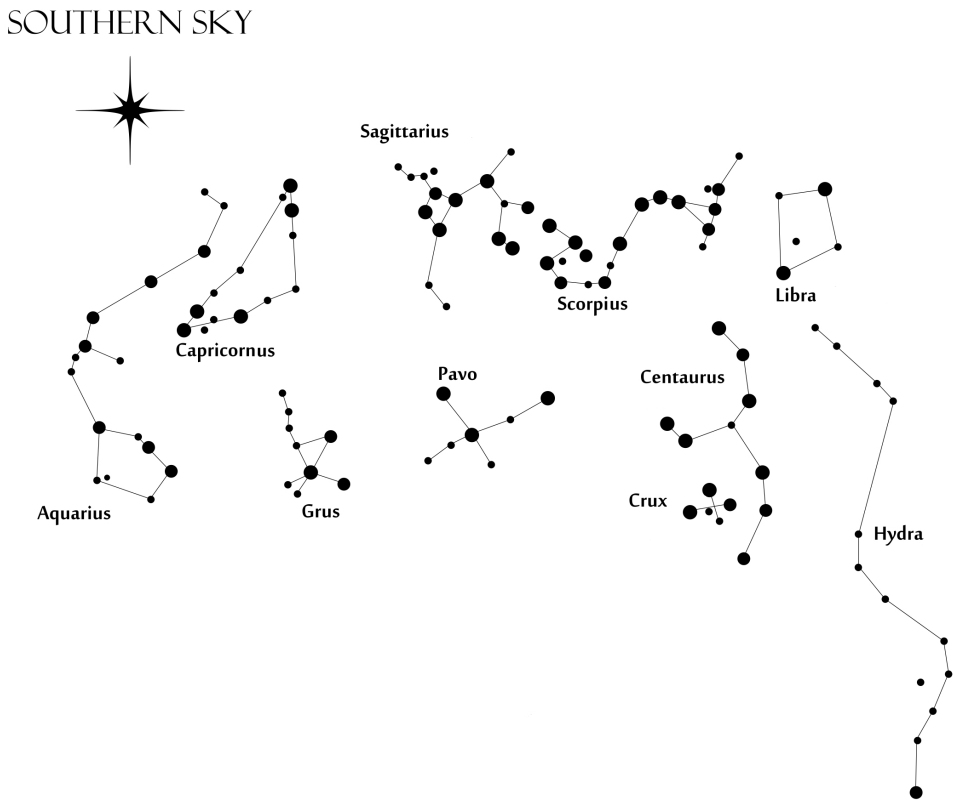
Northern Celestial Hemisphere

Constellation	Location	Brightest Star
Lyra	18 hours right ascension and 40° north declination	Vega
Pegasus	23 hours right ascension and 20° north declination	Enif
Perseus	4 hours right ascension and 40° north declination	Mirfak
Pisces	1 hour right ascension and 15° north declination	Eta Piscium
Sagitta	20 hours right ascension and 20° north declination	Gamma Sagittae
Taurus	4 hours 20 minutes right ascension and 16° north declination	Aldebaran
Triangulum	2 hours right ascension and 30° north declination	Beta Trianguli
Ursa Major	10 hours 40 minutes right ascension and 56° north declination	Dubhe
Ursa Minor	15 hours right ascension and 80° north declination	Polaris
Vulpecula	20 hours right ascension and 25° north declination	Alpha Vulpeculae



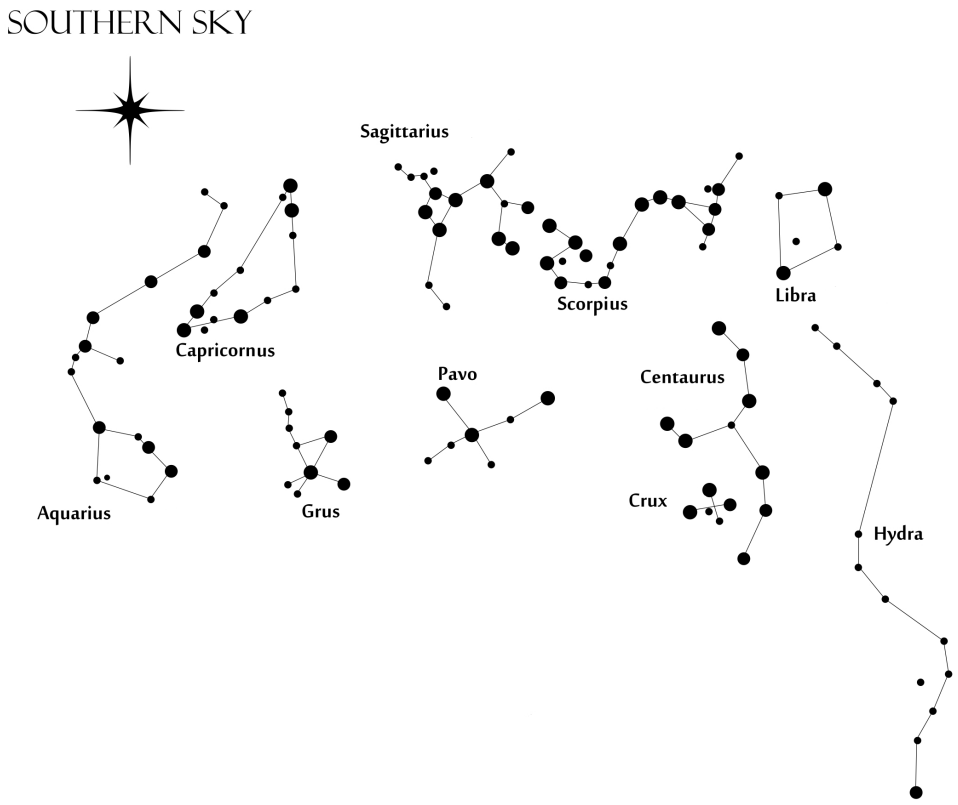
Southern Celestial Hemisphere

Constellation	Location	Brightest Star
Antlia	10 hours right ascension, 30° south declination	Alpha Antliae
Apus	16 hours right ascension and 80° south declination	Alpha Apodis
Aquarius	22 hours right ascension and 10° south declination	Sadalmelik
Ara	17 hours right ascension and 55° south declination	Beta Arae
Caelum	5 hours right ascension and 40° south declination	Gamma Caeli
Canis Major	7 hours right ascension and 20° south declination	Sirius
Capricornus	21 hours right ascension and 20° south declination	Deneb Algedi
Carina	7 to 11 hours right ascension and 60° south declination	Canopus
Centaurus	13 hours right ascension and 40° south declination	Alpha Centauri
Cetus	2 hours right ascension and 10° south declination	Deneb Kaitos
Chamaeleon	11 hours right ascension and 80° south declination	Alpha Chamaeleontis



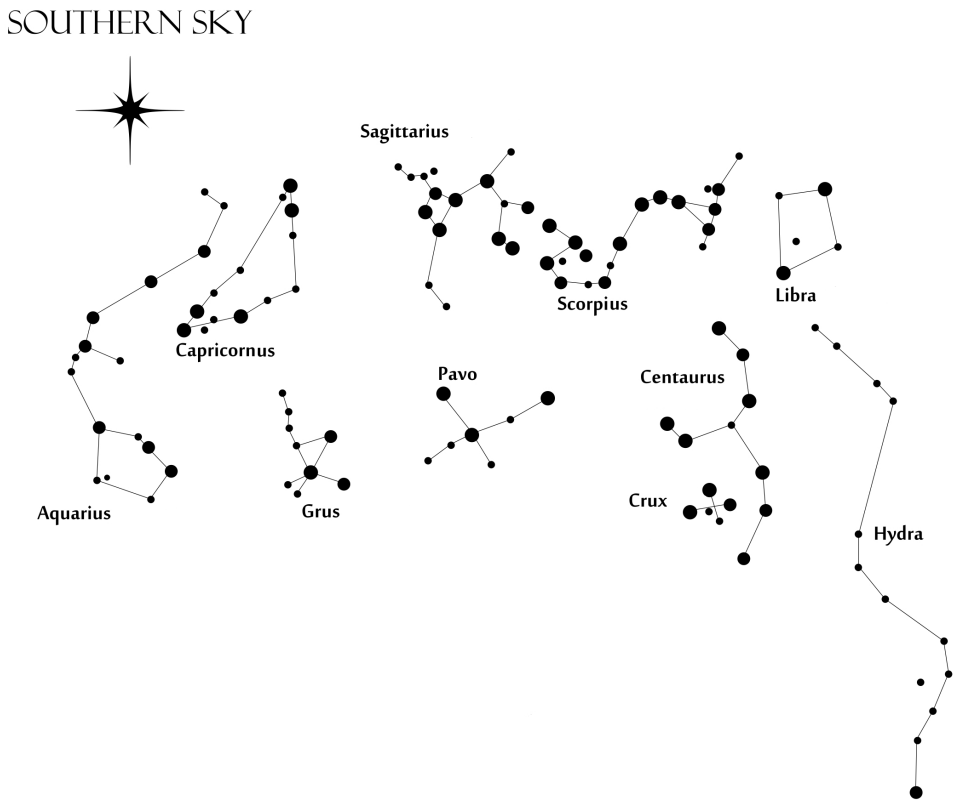
Southern Celestial Hemisphere

Constellation	Location	Brightest Star
Circinus	15 hours right ascension and 60° south declination	Alpha Circini
Columba	6 hours right ascension and 35° south declination	Alpha Columbae
Corona Australis	19 hours right ascension and 40° south declination	Alphecca Australis
Corvus	12 hours right ascension and 20° south declination	Gienah
Crater	11 hours right ascension and 20° south declination	Delta Crateris
Crux	12 hours 30 minutes right ascension and 60° south declination	Alpha Crucis
Dorado	5 hours right ascension and 60° south declination	Alpha Doradus
Eridanus	4 hours right ascension and stretches from the celestial equator to about 60° south declination	Achernar
Fornax	3 hours right ascension and 30° south declination	Alpha Fornacis
Grus	22 hours right ascension and 45° south declination	Al Na'ir
Horologium	3 hours right ascension and 50° south declination	Alpha Horologii



Southern Celestial Hemisphere

Constellation	Location	Brightest Star
Hydra	8 to 15 hours right ascension and about 5° north to 30° south declination	Alphard
Hydrus	2 hours right ascension and 70° south declination	Beta Hydri
Indus	21 hours right ascension and 50° south declination	Alpha Indi
Lepus	6 hours right ascension and 20° south declination	Arneb
Libra	15 hours 30 minutes right ascension and 15° south declination	Zubeneschamali
Lupus	15 hours right ascension and 40° south declination	Alpha Lupi
Mensa	6 hours right ascension and 80° south declination	Alpha Mensae
Microscopium	21 hours right ascension and 35° south declination	Gamma Microscopii
Musca	13 hours right ascension and 70° south declination	Alpha Muscae
Norma	16 hours right ascension and 50° south declination	Gamma^2 Normae
Octans	Covers south celestial pole	Nu Octantis



Southern Celestial Hemisphere

Constellation	Location	Brightest Star
Pavo	20 hours right ascension and 65° south declination	Alpha Pavonis
Phoenix	1 hour right ascension and 50° south declination	Alpha Phoenicis
Pictor	6 hours right ascension and 60° south declination	Alpha Pictoris
Piscis Austrinus	22 hours right ascension and 30° south declination	Fomalhaut
Puppis	8 hours right ascension and 30° south declination	Zeta Puppis
Pyxis	9 hours right ascension and 30° south declination	Alpha Pyxidis
Reticulum	4 hours right ascension and 60° south declination	Alpha Reticuli
Sagittarius	19 hours right ascension and 25° south declination	Kaus Australis
Scorpius	16 hours 30 minutes right ascension and 30° south declination	Antares
Sculptor	1 hour right ascension and 30° south declination	Alpha Sculptoris
Scutum	19 hours right ascension and 10° south declination	Alpha Scuti

Southern Celestial Hemisphere

Constellation	Location	Brightest Star
Telescopium	19 hours right ascension and 50° south declination	Alpha Telescopii
Triangulum Australe	16 hours right ascension and 65° south declination	Alpha Trianguli Australis
Tucana	0 hour right ascension and 60° south declination	Alpha Tucanae
Vela	10 hours right ascension and 50° south declination	Gamma Velorum
Virgo	13 hours right ascension and 2° south declination	Spica
Volans	8 hours right ascension and 70° south declination	Beta Volantis

Equatorial

Constellation	Location	Brightest Star
Aquila	20 hours right ascension and on the celestial equator in declination	Altair
Monoceros	7 hours right ascension and on the celestial equator in declination	Alpha Monocerotis
Ophiuchus	17 hours right ascension and on the celestial equator in declination	Rasalhague
Orion	5 hours 30 minutes right ascension and 0° declination	Rigel
Serpens	Two parts: 16 hours right ascension and 10° north declination; 18 hours right ascension and 10° south declination (crosses north and south)	Unukalhai
Sextans	10 hours right ascension and on the celestial equator in declination	Alpha Sextantis

Study the flashcards on the following pages and fill in the blank ones. When you are comfortable with what the constellations look like, label the constellations shown on the following two pages.

Aquarius	Cygnus	Pegasus
Auriga	Gemini	Perseus
Cancer	Grus	Sagittarius
Capricornus	Hercules	Scorpius
Cassiopeia	Hydra	Taurus
Centaurus	Leo	Ursa Major
Cepheus	Libra	Ursa Minor
Corona Borealis	Lyra	
Crux	Pavo	

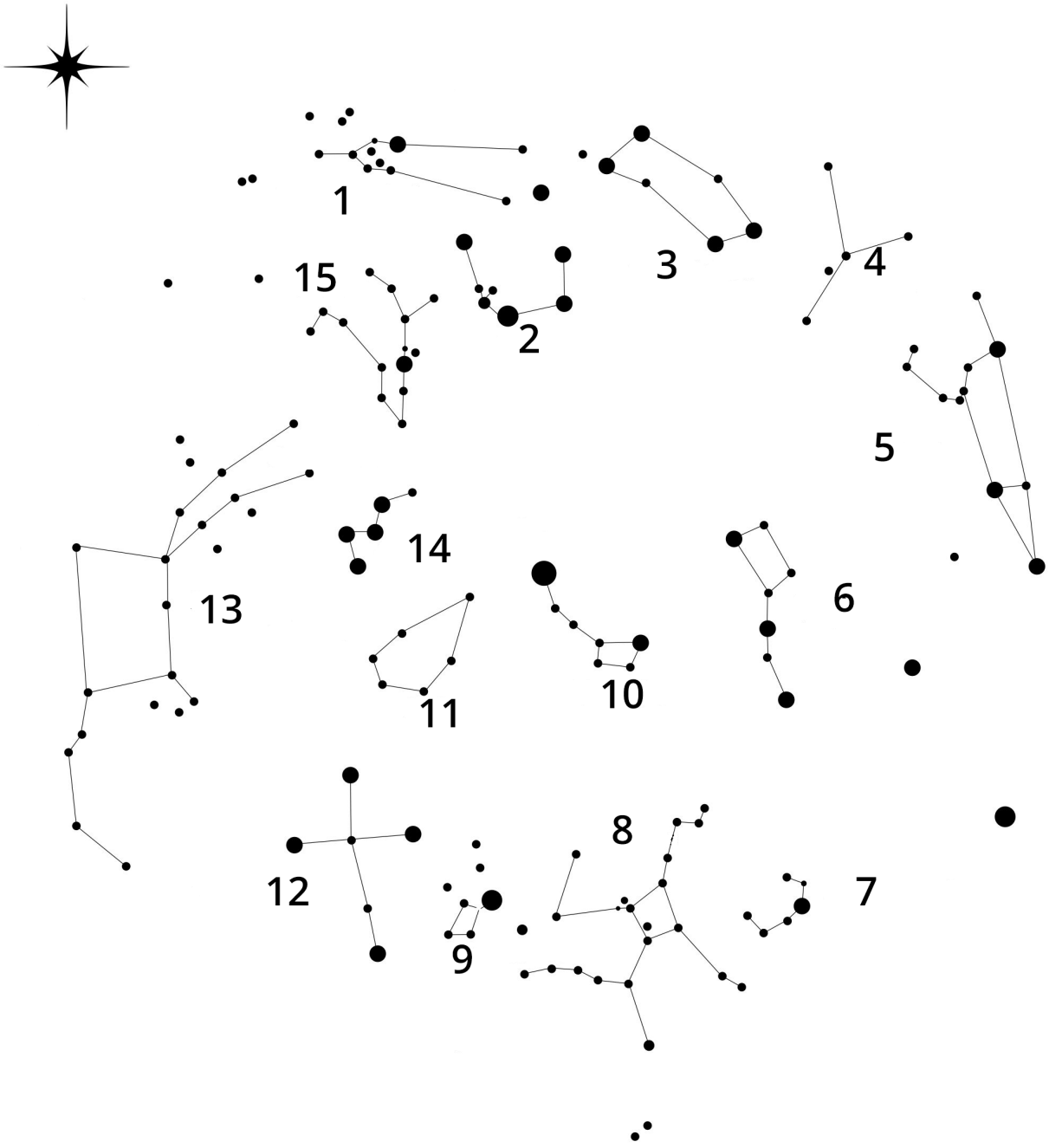
Northern Celestial Hemisphere

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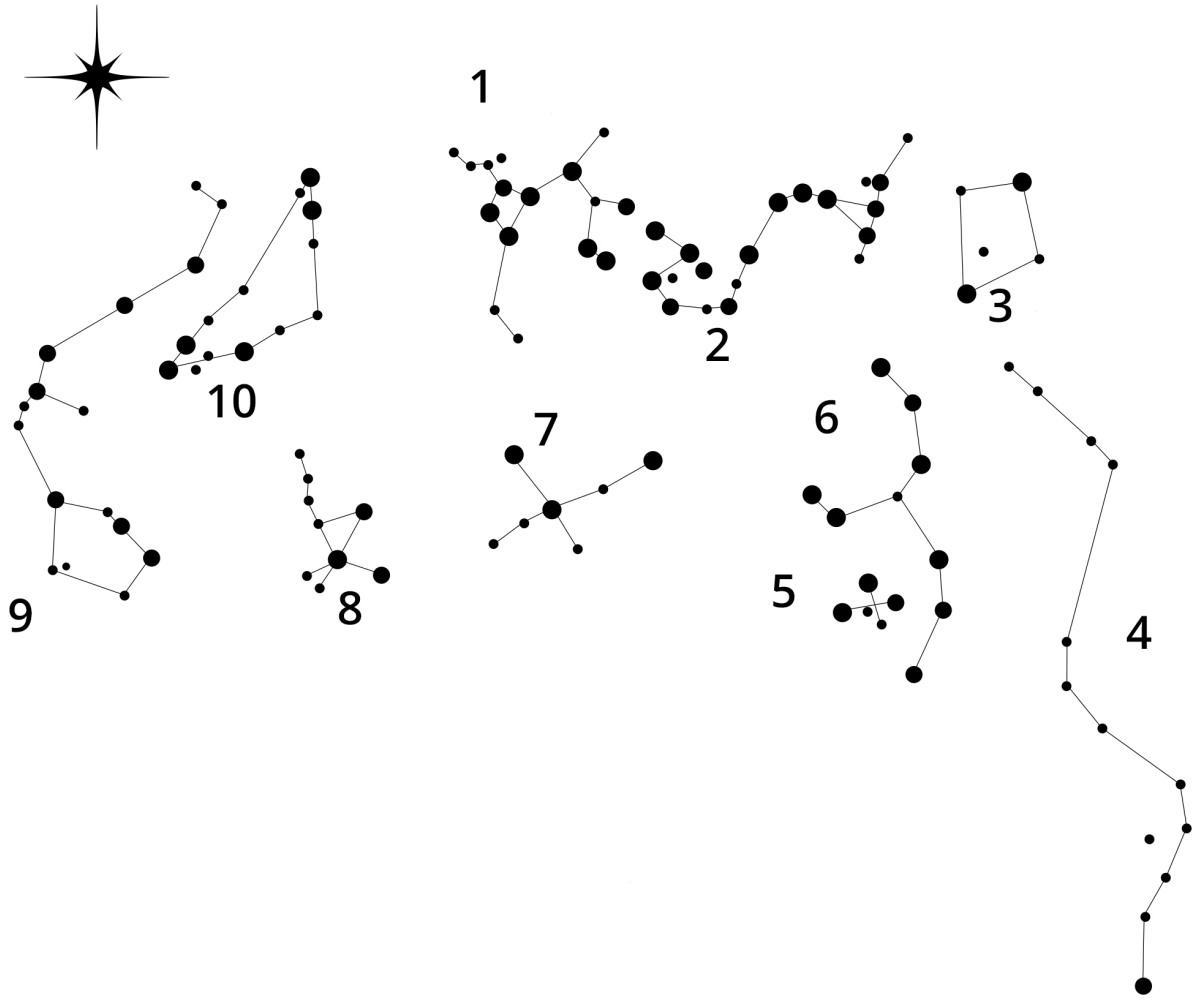
Southern Celestial Hemisphere

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NORTHERN SKY



SOUTHERN SKY



Answer Key

Northern Celestial Hemisphere

1. Taurus
2. Auriga
3. Gemini
4. Cancer
5. Leo
6. Ursa Major
7. Corona Borealis
8. Hercules
9. Lyra
10. Ursa Minor
11. Cepheus
12. Cygnus
13. Pegasus
14. Cassiopeia
15. Perseus

Southern Celestial Hemisphere

1. Sagittarius
2. Scorpius
3. Libra
4. Hydra
5. Crux
6. Centaurus
7. Pavo
8. Grus
9. Aquarius
10. Capricornus