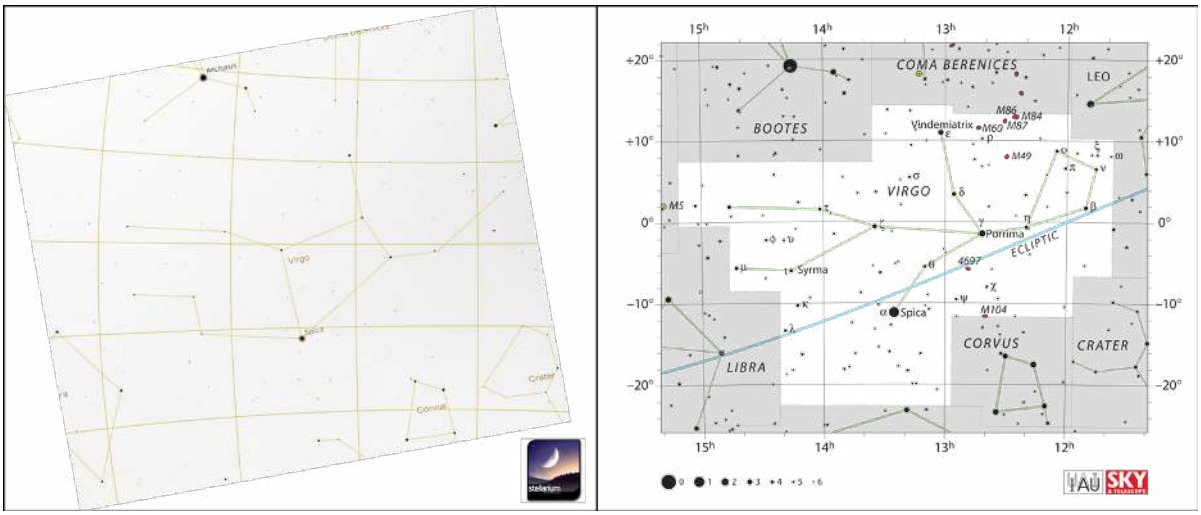
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Classroom Test part 1: Navigating the night sky

Instructions:

1. You have 40 minutes in total to solve this part.
2. In this exercise, you are given two wide-field maps (around 100° wide) of the night sky, labeled as "**Map 1**" and "**Map 2**". Map 1 is for an observer of the southern hemisphere, while Map 2 is for an observer of the northern hemisphere. The Milky Way is not depicted on the maps.
3. Write your answers on the maps themselves.
4. You will be asked questions about both of these maps. You can spend the available time as you wish between the two maps.
5. For all of the following questions, if you provide more than the requested answers, following rules will apply:
   A. For questions 1a, 1b, 2a and 2b, there will be no penalty for one extra answer, i.e. if you are asked to mark **N** objects in any sub-question and you mark **N+1** objects.
   B. For **each extra object** after that you will lose partial points (negative marking).
   C. You will not receive negative marking for any wrong answers though.
6. Whenever you are asked to draw constellations on the map, you can use any common stick figure drawing depicted in atlases or planetarium softwares (such as Stellarium). We will accept all reasonable drawings, but you are advised to keep your drawing as simple and recognisable as possible. For example, it would be preferable to depict Andromeda as the two back legs of Pegasus rather than a stick figure (a person) as in the IAU maps. Below you are given an example depicting two acceptable drawings of Virgo.



Classroom Test part 1: Navigating the night sky

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Map 1 – Southern sky:

a) Draw stick figures for any 10 constellations on the map and write their IAU code next to them. **(10 points)**

Notes:

- In case you do not know how to draw the constellation stick figure, but do know the area in which it resides, you can still provide the IAU code of the constellation in that area. You can refer to the table given for a list of IAU codes.
- You should draw and name only those constellations that are (almost) completely visible in the map. The constellations that are partially cut-off from the map will not be accepted as valid answers.

b) Identify any 20 stars on the map and provide either their proper name or their Bayer designation in English. **(10 points)**

Notes:

- Both proper name and Bayer name are acceptable, but you do not get extra points for knowing both.
- It is not compulsory to only choose the stars from the constellations you picked in the previous question.

c) A very bright star is missing from the map. Mark the position of the missing star with an "x" on the map. **(2.5 points)**

Map 2 – Northern sky:

a) Draw stick figures of any 10 constellations on the map and write their IAU code next to them (same instructions as question 1a). **(10 points)**

b) Identify on the map 20 stars and provide either their proper name or their Bayer abbreviation in English. (same instructions as 1b). **(10 points)**

c) A Supernova is present in the sky map. Identify and circle the same. **(2.5 points)**

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IAU Constellations List

No	Constellation	IAU code		No	Constellation	IAU code
1	Andromeda	And		45	Lacerta	Lac
2	Antlia	Ant		46	Leo	Leo
3	Apus	Aps		47	Leo Minor	LMi
4	Aquarius	Aqr		48	Lepus	Lep
5	Aquila	Aql		49	Libra	Lib
6	Ara	Ara		50	Lupus	Lup
7	Aries	Ari		51	Lynx	Lyn
8	Auriga	Aur		52	Lyra	Lyr
9	Boötes	Boo		53	Mensa	Men
10	Caelum	Cae		54	Microscopium	Mic
11	Camelopardalis	Cam		55	Monoceros	Mon
12	Cancer	Cnc		56	Musca	Mus
13	Canes Venatici	CVn		57	Norma	Nor
14	Canis Major	CMa		58	Octans	Oct
15	Canis Minor	CMi		59	Ophiuchus	Oph
16	Capricornus	Cap		60	Orion	Ori
17	Carina	Car		61	Pavo	Pav
18	Cassiopeia	Cas		62	Pegasus	Peg
19	Centaurus	Cen		63	Perseus	Per
20	Cepheus	Cep		64	Phoenix	Phe
21	Cetus	Cet		65	Pictor	Pic
22	Chamaeleon	Cha		66	Pisces	Psc
23	Circinus	Cir		67	Piscis Austrinus	PsA
24	Columba	Col		68	Puppis	Pup
25	Coma Berenices	Com		69	Pyxis	Pyx
26	Corona Australis	CrA		70	Reticulum	Ret
27	Corona Borealis	CrB		71	Sagitta	Sge
28	Corvus	Crv		72	Sagittarius	Sgr
29	Crater	Crt		73	Scorpius	Sco
30	Crux	Cru		74	Sculptor	Scl
31	Cygnus	Cyg		75	Scutum	Sct
32	Delphinus	Del		76	Serpens	Ser
33	Dorado	Dor		77	Sextans	Sex
34	Draco	Dra		78	Taurus	Tau
35	Equuleus	Equ		79	Telescopium	Tel
36	Eridanus	Eri		80	Triangulum	Tri
37	Fornax	For		81	Triangulum Australe	TrA
38	Gemini	Gem		82	Tucana	Tuc
39	Grus	Gru		83	Ursa Major	UMa
40	Hercules	Her		84	Ursa Minor	UMi
41	Horologium	Hor		85	Vela	Vel
42	Hydra	Hya		86	Virgo	Vir
43	Hydrus	Hyi		87	Volans	Vol
44	Indus	Ind		88	Vulpecula	Vul

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