

Bentworth Sky Observation Report

BENTWORTH
AREA SCHOOL DISTRICT

My second trip to
Mingo Creek Observation
for your Science Teacher

Date: _____, 20__

PRINT below:

NAME: _____

Circle Class period: 1 2 3 4 5 6 7 8

PLEASE READ FIRST:

This here binding contract must be signed, by the teacher, PRIOR to the observation taking place. Some teachers MAY NOT take this for extra credit. PLEASE make sure your teacher is accepting this for credit. That is why it must be signed prior to taking place. It is the student's responsibility for turning this sheet in to the teacher. ALSO the student MUST sign in (in their own hand writing), AND write "Bentworth" after their name.

IF you are in MR. SMITH's class then you are approved to go to Mingo

Bentworth Sky Observation Report

DIRECTIONS:

Your science teacher MAY NOT take this for extra credit. PLEASE make sure your teacher is accepting this for credit. Having your teacher sign this will help but not necessary. It is the student's responsibility for turning this sheet in to the teacher. ALSO the student listed on the front cover MUST sign in at the front desk in their own hand writing at Mingo. They CAN NOT have someone else do it for them. In addition to signing in YOU MUST write "Bentworth" after their name.

YOU do not have to complete this packet in ORDER. Some information will REQUIRE a computer or internet information. **The worksheets, however, will be graded, IN ORDER, for accuracy, completion, and signature by staff member (when possible).** Each sheet will be extra credit. When the sheet is **NOT completed fully**, then the extra credit stops at **THAT sheet and the previous sheets will count**

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PAGE 12: Worksheet: Locate the circumpolar constellations

PAGE 13: Worksheet: Locate the zodiac constellations that are visible

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Name _____ Observation Number# PAGE 9

Directions:

1. Spend 2-5 minutes carefully observing and recording what you see in the eye piece.
2. COMPLETE this entire page for credit. It is your responsibility to turn it into the teacher
3. Your sketch should SHOW DETAIL

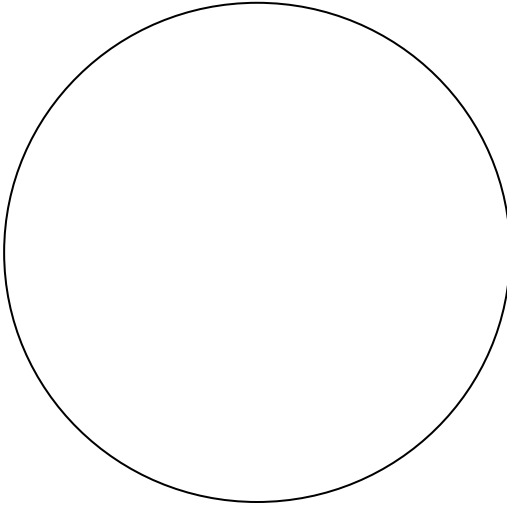
OBJECT that you are viewing is:

In the Circle below, sketch the object viewed in that eyepiece. The Circle represents the eyepiece.

Location: Mingo Creek Observatory
Date :
Time: _____ am/pm
Viewing condition:

Telescope Used to view object with:
BIG 24' scope 10' refractor
Private scopes: **Refractor Reflector**
Dobsonian Cassegrain Other

Eye Piece size if known: mm



In the space below, write any additional information about THAT object that you viewed. This can include time rise, set, distance in light-years, luminosity (magnitude), etc...

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Name _____ Observation Number# PAGE 10

Directions:

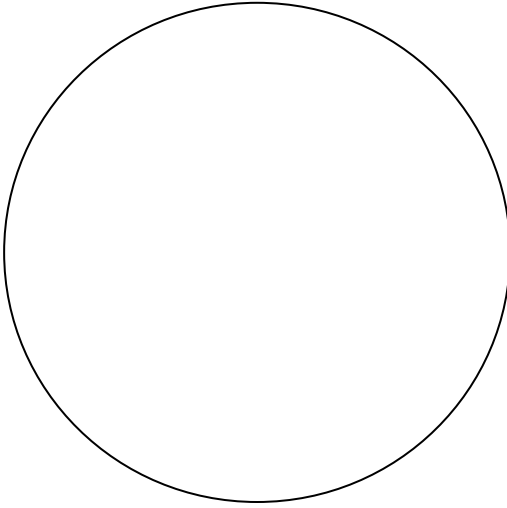
4. Spend 2-5 minutes carefully observing and recording what you see in the eye piece.
5. COMPLETE this entire page for credit. It is your responsibility to turn it into the teacher
6. Your sketch should SHOW DETAIL

OBJECT that you are viewing is:

In the Circle below, sketch the object viewed in that eyepiece. The Circle represents the eyepiece.

Location: Mingo Creek Observatory
Date :
Time: _____ am/pm
Viewing condition:

Telescope Used to view object with:
BIG 24' scope 10' refractor
Private scopes: **Refractor** **Reflector**
Dobsonian **Cassegrain** **Other**



Eye Piece size if known: _____ mm

In the space below, write any additional information about THAT object that you viewed. This can include time rise, set, distance in light-years, luminosity (magnitude), etc...

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Name _____ Observation Number# PAGE 11

Directions:

7. Spend 2-5 minutes carefully observing and recording what you see in the eye piece.
8. COMPLETE this entire page for credit. It is your responsibility to turn it into the teacher
9. Your sketch should SHOW DETAIL

OBJECT that you are viewing is:

In the Circle below, sketch the object viewed in that eyepiece. The Circle represents the eyepiece.

Location: Mingo Creek Observatory

Date :

Time: _____ am/pm

Viewing condition:

Telescope Used to view object with:

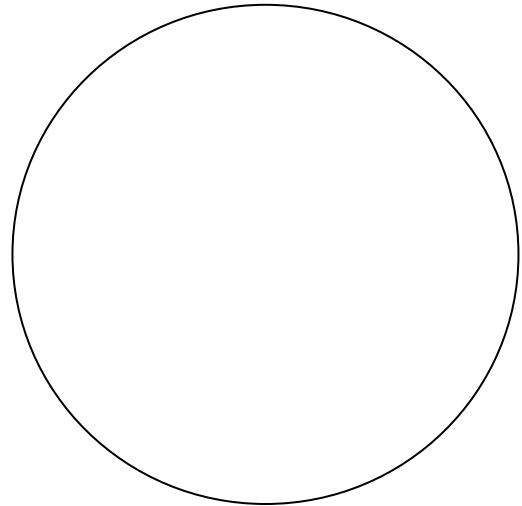
BIG 24' scope 10' refractor

Private scopes: **Refractor** **Reflector**

Dobsonian **Cassegrain** **Other**

Eye Piece size if known: _____ mm

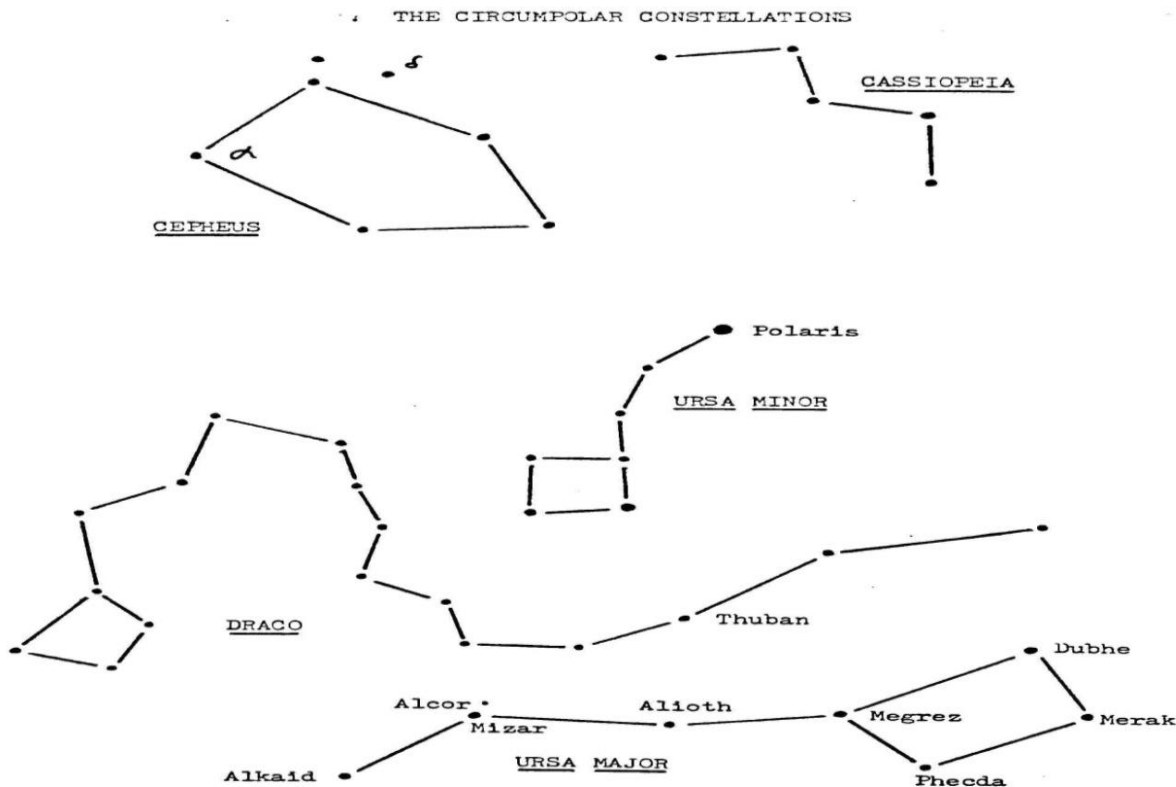
In the space below, write any additional information about THAT object that you viewed. This can include time rise, set, distance in light-years, luminosity (magnitude), etc...



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Name _____ Observation Number# PAGE 12

Directions:



1. A group of stars that make up an imaginary pattern of mythical creatures or great hero's is called?
2. The Big Dipper is not a constellation. It is an asterism! Big Dipper is a part of which constellation?
 - a. Draco
 - b. Ursa Major
 - c. Ursa Minor
 - d. Cassiopeia
 - e. Cephus
 - f. Leo
 - g. Virgo
 - h. Bootes
 - i. Orion
3. Define an ASTERISM and include an example other than the Big Dipper and URSA MAJOR? (hint: heart of the galaxy is located near this zodiac archer)

Go outside and locate the BIG DIPPER:

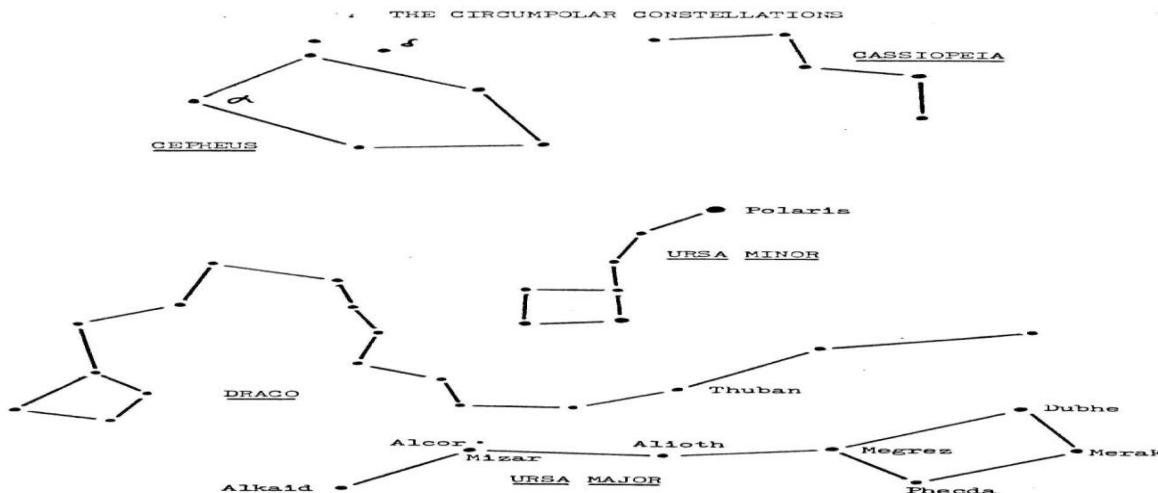
4. DID you locate the BIG DIPPER without help? YES NO

Whomever witness this please sign off on this sheet:

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Name _____ Observation Number# PAGE 13

Directions:



CIRCLE your answer for the next 3 questions

1. What is the name of the North Star?

- | | | |
|---------------|------------|-----------|
| a. Arcturus | d. Merak | g. Spica |
| b. Betelgeuse | e. Polaris | h. Thuban |
| c. Dubhe | f. Regulus | i. Vega |

2. What is the name of the NEW North Star in about 8,000 years from now?

- | | | |
|---------------|------------|-----------|
| a. Arcturus | d. Merak | g. Spica |
| b. Betelgeuse | e. Polaris | h. Thuban |
| c. Dubhe | f. Regulus | i. Vega |

3. What was the name of the former (OLD) North Star located in Draco?

- | | | |
|---------------|------------|-----------|
| a. Arcturus | d. Merak | g. Spica |
| b. Betelgeuse | e. Polaris | h. Thuban |
| c. Dubhe | f. Regulus | i. Vega |

4. Write a brief detailed description of how do you find the North Star using the big dipper?