

Bentworth Sky Observation Report

BENTWORTH
AREA SCHOOL DISTRICT

My Third (and final) 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 14: **Star gazing** Observe an object USING the BIG TELESCOPE (can't repeat objects)

PAGE 15: **Star gazing** Observe a DIFFERENT object using the 10inch telescope (can't repeat Obj)

PAGE 16: **Star gazing** Observe an object USING any scope

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PAGE 18: Worksheet: Locate the zodiac constellations that are visible

PAGE 19: **Star gazing** Observe an object USING any scope

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Name _____ Observation Number# PAGE 14

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:

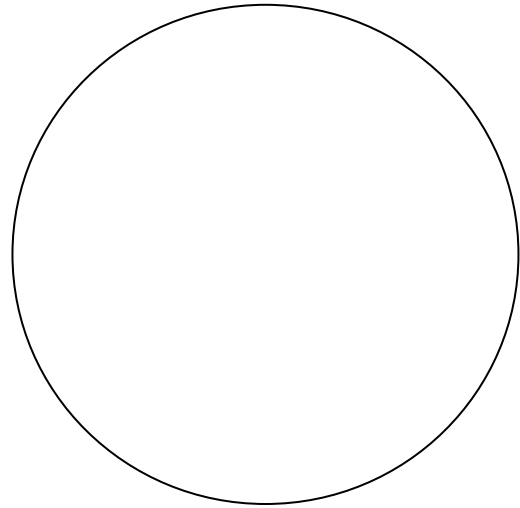
BIG 24' scope 10' refractor

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 15

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

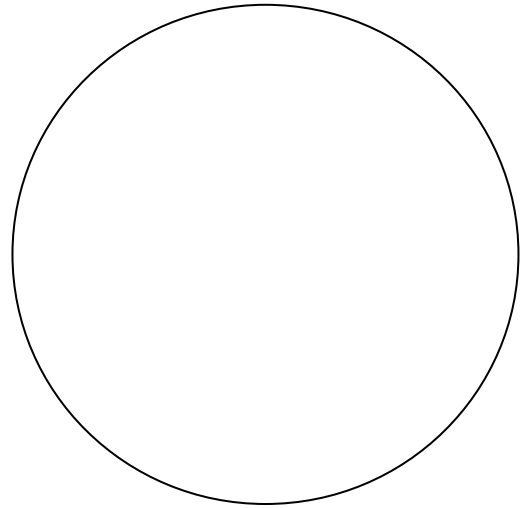
10' refractor

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...



Bentworth Sky Observation Report

Name _____ Observation Number# PAGE 16

Directions:

1. HERE you are NOT allowed to you the big telescope. YOU must find another telescope. See anyone who has a telescope set up on the lawn. Ask them, "what are you looking at? Can I take a look?"
2. HAVE them sign this sheet to prove that you completed this task
3. **Owner of the telescope MUST sign this sheet somewhere.**
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:

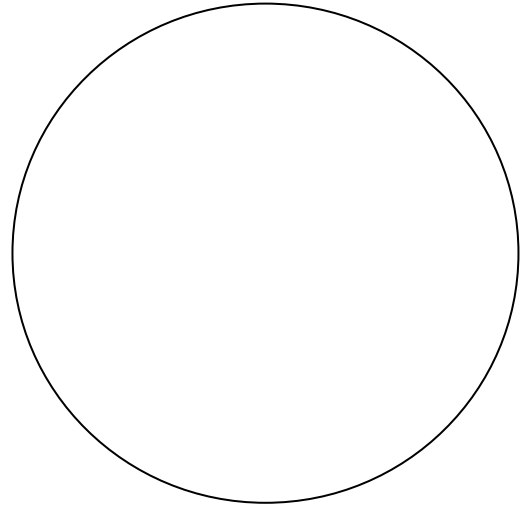
BIG 24' scope 10' refractor

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 17

Directions:

1. Which triangle SUMMER or WINTER, can you locate in the night sky tonight?

SUMMER

WINTER

2. What are the names of these constellations in the triangle that you had to use to located?

Column A

Column B

Column C

- | | | |
|---------------------|------------------------|---------------------|
| a. Orion the hunter | d. Boötes the herdsman | g. Cygnus the swan |
| b. Canis Major | e. Virgo the maiden | h. Aquila the eagle |
| c. Canis Minor | f. Hercules | i. Lyra the harp |

3. Can you tell any MAJOR star(s) in this group?

A. Betelgeuse

D. Arcturus

G. Deneb

B. Sirius

E. Spica

H. Altair

C. Procyon

F. “keystones”

I. Vega

4. Each season usually has one or two constellation that is associated with it. List that seasons MAIN constellation in the space provided?

SPRING:

SUMMER:

FALL:

WINTER:

Got outside and locate the “triangle” in the night sky

5. Indicate which “triangle” you located?

a. WINTER

b. SUMMER

Whomever witness this please sign off on this sheet:

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Name _____ Observation Number# PAGE 18 _____

Directions:

1. **Zodiac actually means?**
 - a. Circle of animals
 - b. Circle of hero's
 - c. Circle of clowns

2. **Which of the ZODIAC signs are you?**

a. Aries	e. Lion	i. Sagittarius
b. Taurus	f. Virgo	j. Capricorn
c. Gemini	g. Libra	k. Aquarius
d. Cancer	h. Scorpio	l. Pisces

3. **On January of 2012, the zodiac signs were changed from 12 to 13. Who did they add?**

a. Hercules	d. Bootes	g. Ophiuchus
b. Cassiopeia	e. Orion	h. Lyra
c. Cephus	f. Cygnus	i. Aquila

4. **Write a brief description as to why they added another zodiac constellation?**

Go outside and locate at least 2 ZODIAC constellations:

5. **DID you locate at least 2 zodiac constellations by themselves without any help?**
YES NO

LIST THEM:

Whoever witness this please sign off on this sheet:

Name _____ Observation Number# **PAGE 19****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:
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In the Circle below, sketch the object viewed in that eyepiece. The Circle represents the eyepiece.

Location: Mingo Creek Observatory
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Date :

Time: _____ am/pm

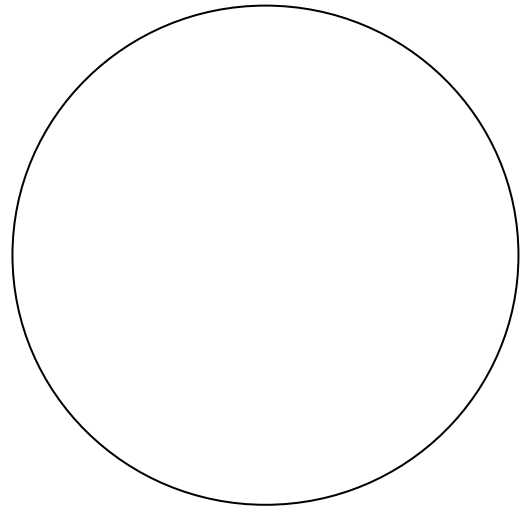
Viewing condition:

Telescope Used to view object with:
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BIG 24' scope	10' refractor
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<i>Private scopes:</i> Refractor	Reflector
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Dobsonian	Cassegrain	Other
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Eye Piece size if known:	mm
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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...