

Constellation Creation

Lesson 19

Name: _____

Date: _____

Vocabulary

Constellation - a grouping of stars in the celestial sphere perceived as a figure or design

Astronomy - the scientific study of celestial objects and phenomena beyond Earth's atmosphere

Activity 1

Constellation Creation and Research

With the Ari Compass Application, you'll be recreating the starry skies. Set the Ari Compass application to On a Map, and with each constellation drawing activity, orient the application to the compass provided.

You'll receive directions to draw each of the constellations. Use and move Ari to place and sketch the constellation.

1

- A. Begin drawing at H6.
- B. Draw a 3-block diagonal line NNW.
- C. Draw a 2-block vertical line N.
- D. Return to G3.
- E. Draw a 2-block diagonal line SW.
- F. Draw a 2-block horizontal line W.
- G. Draw a 3-block diagonal line NNE.
- H. Return to E5.
- I. Draw a 2-block diagonal line SE.
- J. Draw a 2-block diagonal line SW.
- K. Draw a 3-block diagonal line NW.
- L. Draw a 1-block diagonal line SW.
- M. Return to G7.
- N. Draw a 1-block diagonal line NE.
- O. Draw a 2-block diagonal line SE.
- P. Draw a 3-block diagonal line SW.
- Q. Return to J8.
- R. Draw a 1-block diagonal line SE.

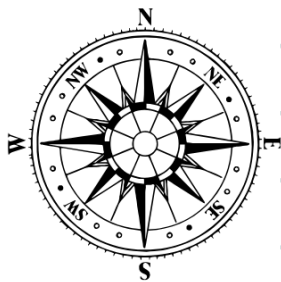
Note: This is what the constellation looks like around midnight in mid-June in the Northern Hemisphere.

Constellation Creation

Lesson 19

Name: _____

Date: _____



A	B	C	D	E	F	G	H	I	J	K	L	M	
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2

With your drawn constellation as reference, research and record the following facts about the constellation:

1. *Name of the constellation:*

2. *Summarize the story of the mythical figure:*

3. *What the constellation represents in the night sky:*

Constellation Creation

Lesson 19

Name: _____

Date: _____

3

- A. Begin drawing at E6.
- B. Draw a 2-block diagonal line NW.
- C. Draw a 2-block diagonal line NNW.
- D. Return to C4.
- E. Draw a 1-block diagonal line NE.
- F. Draw a 2-block vertical line N.
- G. Return to E6.
- H. Draw a 2-block diagonal line NNE.
- I. Draw a 3-block diagonal line SE.
- J. Draw a 4-block diagonal line ESE.
- K. Draw a 4-block diagonal line SSW.
- L. Draw a 3-block diagonal line NW.
- M. Draw a 1-block diagonal line NNE.
- N. Draw a 1-block vertical line N.
- O. Place Ari at G5.
- P. Draw a 2-block diagonal line NE.
- Q. Draw a 1-block diagonal line NW.
- R. Draw a 1-block horizontal line W.
- S. Place Ari at I3.
- T. Draw a 2-block diagonal line SE.
- U. Draw a 1-block vertical line S.

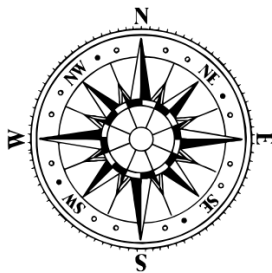
Note: This is what the constellation looks like around midnight in February in the Northern Hemisphere.

Constellation Creation

Lesson 19

Name: _____

Date: _____



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4

With your drawn constellation as reference, research and record the following facts about the constellation:

1. *Name of the constellation:*

2. *Summarize the story of the mythical figure:*

3. *What the constellation represents in the night sky:*

Constellation Creation

Lesson 19

Name: _____

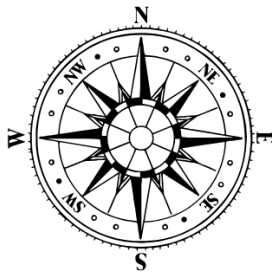
Date: _____

Activity 2

Create Your Own Constellation

1

After drawing existing constellations and researching the myths and lore about each of them, draw your own constellation below, keeping in mind what you've learned about the existing constellations.



A	B	C	D	E	F	G	H	I	J	K	L	M	
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2

With your personal drawn constellation as reference, construct the following facts about the constellation:

1. Name of the constellation:

2. Summarize the story of the mythical figure:

3. What the constellation represents in the night sky:

Constellation Creation

Lesson 19

Name: _____

Date: _____

Exit Ticket

Please respond to the following prompts.

Criteria for Success:

- Students should connect different aspects of constellations to historical views of the stars
- Students should include an accurate description of Ari's use in drawing constellations

1. What are some similarities that different constellations have in common?

2. How was Ari useful in drawing each of the constellations?
