Moon Report

Before we began our 5-paragraph report on the moon, the students learned to write a single paragraph using the 4-square.

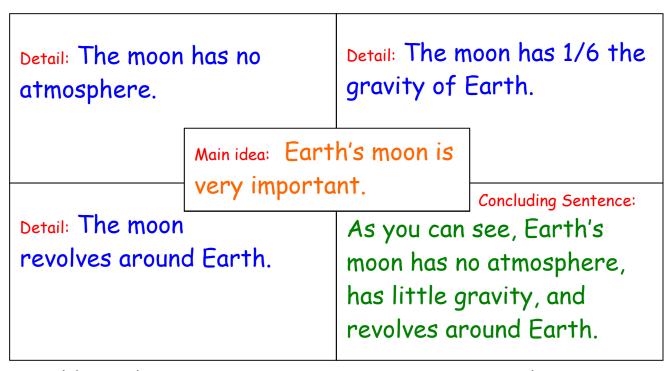
One student's example:

Detail: Lots of meteorites Detail: There is no air to are able to crash into it breathe, so there is no and cause craters. life. Main idea: The moon has no atmosphere. Concluding Sentence: Detail: There As you can see, is no sound, so you can't it is not safe to live on the talk or hear on the moon moon because it has no without a spacesuit. atmosphere.

Her paragrah:

The moon has no atmosphere. There is no air to breathe, so there is no life. Lots of meteorites are able to crash into it and cause craters. There is no sound, so you can't talk or hear on the moon without a spacesuit. As you can see, it is not safe to live on the moon because it has no atmosphere.

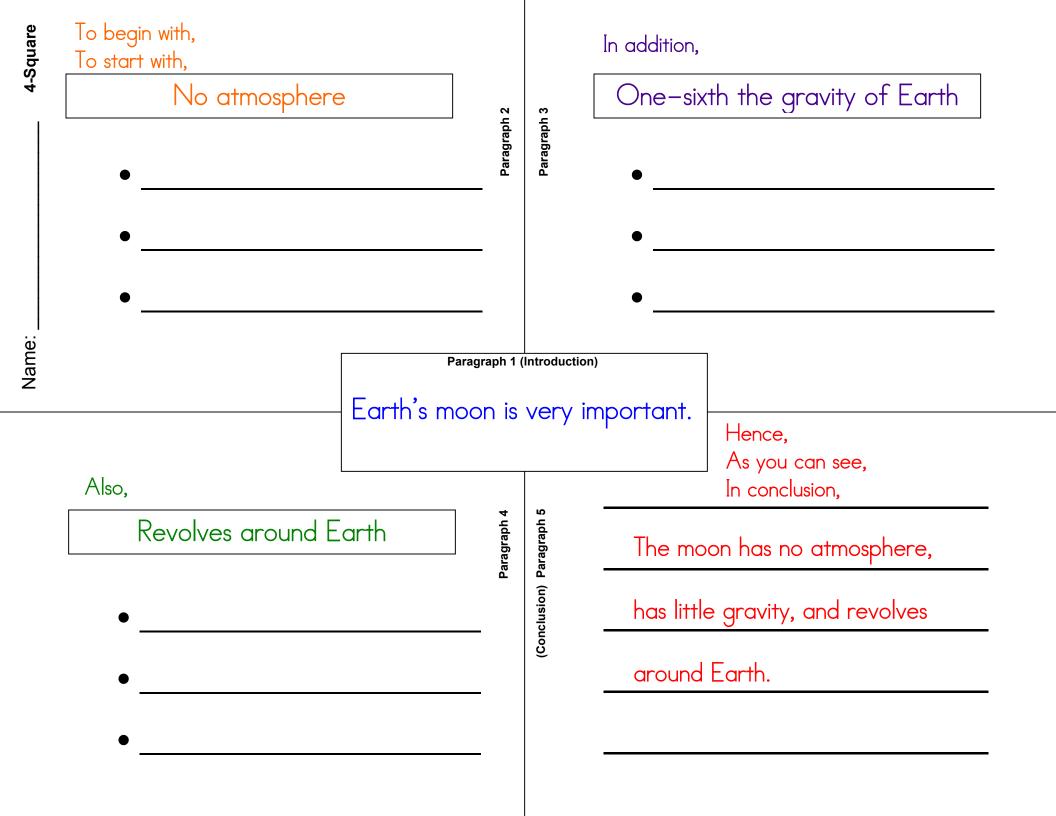
Once we were done studying the moon, we created a 4-Square that had a bigger Main Idea, so that the details would be big enough to become little main ideas of their own paragraphs. Instead of a detail just being one sentence, it becomes one paragraph! In order for us to write a whole paragraph about one detail, that detail needs to be more like a "category of information" - something that can have its own supporting details and examples.



We could use this 4-Square to write just one paragraph:

Earth's moon is very important. The moon has no atmosphere. The moon has 1/6 the gravity of Earth. The moon revolves around Earth. As you can see, Earth's moon has no atmosphere, has little gravity, and revolves around Earth.

This paragraph is rather boring. We give three important pieces of information about the moon, but we don't explain any of them. We don't elaborate. But, if we let each detail become the main idea of its own paragraph, we can give more information and make the report more interesting! On the next page is the 4-Square template that each student used for writing their five-paragraph report on the moon. We wrote the introductory and concluding paragraphs together.



No atmosphere

Possible details:

- very hot (220°F) on one side and very cold (-279°F) on other side
- no plants or animals can live (too hot, too cold, no water, no air to breathe)
- no weather or water
- no sound
- meteorites can crash into moon and cause craters
- dark sky
- no oxygen to breathe

Paragraph 2

Paragraph 3

One-sixth the gravity of Earth

Possible details:

- causes high tide on Earth
- bounce when walking on moon because less gravity to pull you down
- jump six times higher on the moon than on Earth
- Things weigh six times less on the moon than on Earth
 - Examples (baseballs go 6x farther, 200 lb spacesuit only weighs 33 lbs, jump 54 in. on moon if 9 in. on Earth)

Paragraph 1 (Introduction)

Earth's moon is very important.

Revolves around Earth

Possible details:

- four phases of moon
- same side of moon always faces Earth, never see the "dark side" of the moon
- only rotates one time in the amount of time it takes the moon to revolve once around the Earth - about 29? days

(Conclusion) Paragraph

aragraph 4

The moon has no atmosphere,

has little gravity, and revolves

around Earth.

| EARTH atmosphere | MOON no atmosphere |
|----------------------------------------------|-----------------------------------------|
| 1. hear sound | 1. no sound |
| 2. sky blue | 2. dark sky (black) |
| not too hot not too cold | 3. too hot (220°F) too cold (-279°F) |
| 4. plants and animals live | 4. nothing living |
| 5. air to breathe | 5. no air to breathe |
| 6. protects us from meteorites | 6. meteorites cause craters |
| 7. weather, water | 7. no weather or water |
| | |
| | |

We generated this T-chart as a class after reading pages 12 - 13 in our text. Students used this T-chart to help them fill in the first square for the Moon Report.

The K-W-L Chart that we created in the fall of 2003

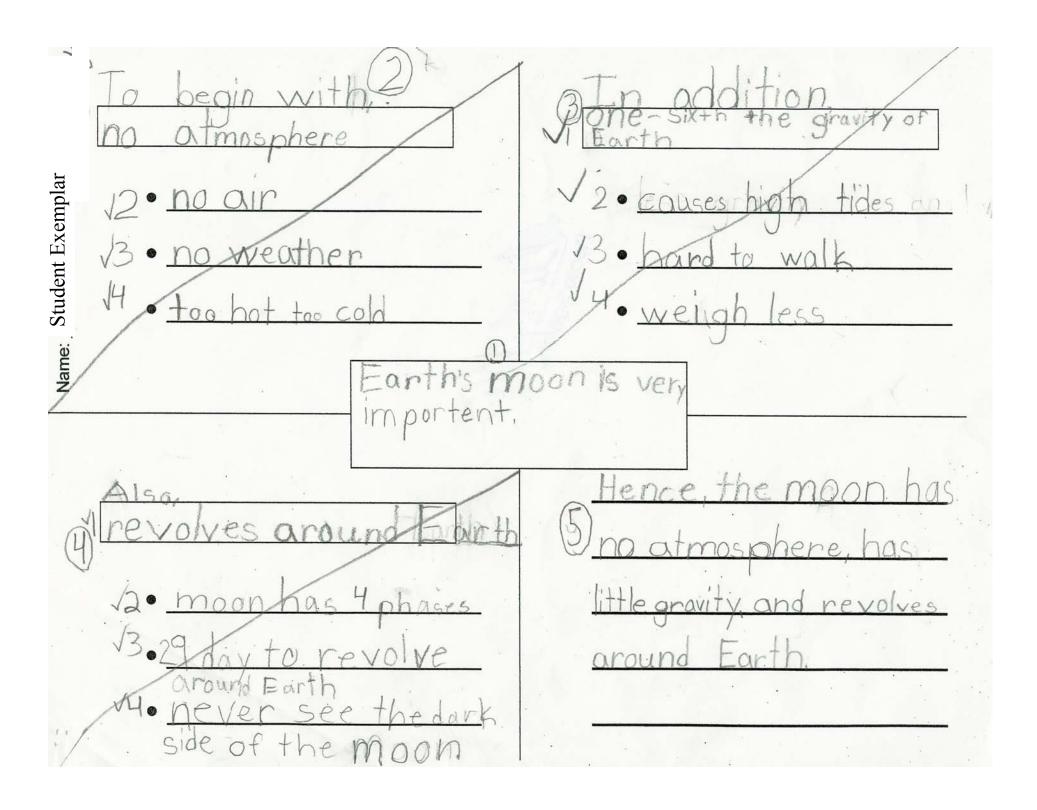
(K and W columns completed before our study of the moon; L column completed afterward)

Moon

Note: The orange color is used to show what we marked on the chart AFTER finishing our unit on the moon)

| Know | Want | Learn |
|----------------------------------------------|--------------------------------------------|-------------------------------------------|
| • white (grey) | how it was created | Moon revolves around |
| reflects sun's rays | how it was created | Earth in its own orbit |
| (doesn't have it's own | Any other flags on it? | Meteorites crash into |
| light) | What crater looks like | the moon and make |
| · moving away from the | If it looks same on | craters |
| Earth | each side | NOT a planet |
| always in sky 24-7 | How did moon get put | Astronauts went on |
| craters on it (look like | in sky? | the moon |
| a face) | • Is it a planet or not? | Four phases |
| smaller than sun | | Same side of moon |
| • moon stays with Earth | | always faces Earth |
| when Earth moves | | Takes 27 days for |
| around sun | | moon to revolve |

| Know | Want | Learn |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| American flag on it A planet Moon created when planet crashed into Earth and pieces went out into space and formed moon Closest planet to Earth 900 craters | → Just a "theory" - not a fact | around Earth Dust and rocks covering it Moon controls high tide of ocean No life 1/6 gravity of Earth (things float) No air/no oxygen People used to think dark spots were seas No atmosphere No plants/animals Boil/freeze without suit 220°F or - 279°F (very hot, very cold) no sound |



The Moon

Earth's moon is very important. To begin with, the moon has no atmosphere. There is no water because there is no weather. It is too hot on one side of the moon and too cold on the other side ane-sixth the gravity of Earthouses
The gravity of the moon causes
high tides on Earth, It's handto
wark on the moon because there
is less gravity to pull your feet
aown. Inings weigh six times less than on Earth. The moon revolves around Earth. The moon has four phases. The moon takes 29 days to revolve around Earth. We never see the dark side of the moon.
Hence, the moon has no atmosphere, has little gravity, and revolves around Earth.

The Moon

Earth's moon is very important.

To begin with, the moon has no atmosphere. There is no air on the moon. There is no water because there is no weather. It's too hot on one side of the moon and too cold on the other side.

In addition, the moon has one-sixth the gravity of Earth. The gravity of the moon causes high tides on Earth. It's hard to walk on the moon because there is less gravity to pull your feet down. Things weigh six times less than on Earth.

Also, the moon revolves around Earth. The moon has four phases. The moon takes 29 days to revolve around Earth. We never see the dark side of the moon.

Hence, the moon has no atmosphere, has little gravity, and revolves around Earth.

