

AIM:

Do Now: 1) Approximately how long ago did Earth form?

2) What causes seasons?

3) From what direction does the Sun rise in summer?

Have one person stand up and spin counterclockwise (slowly).
Record your observations about the spinning person's motion:

Have the person who was spinning describe the motion of the room:

What is **apparent motion**?

Give an example of an apparent motion that is real:

Give an example of an apparent motion that is an illusion:

Object	Apparent Motion
Stars	
Planets	
Moon	
Sun	

AIM:

Do Now: 1) Approximately how long ago did Earth form?

2) What causes seasons?

3) From what direction does the Sun rise in summer?

Have one person stand up and spin counterclockwise (slowly).
Record your observations about the spinning person's motion:

Have the person who was spinning describe the motion of the room:

What is **apparent motion**?

Give an example of an apparent motion that is real:

Give an example of an apparent motion that is an illusion:

Object	Apparent Motion
Stars	
Planets	
Moon	
Sun	

Scientists tried to make sense of the apparent motions they observed by creating models. Your group will work together to create a model of the Earth, Sun, and Moon.

Your model must include the following:

- Labels (Earth, Sun, Moon)
- Something to show the direction of the objects' movements
- A written explanation of your model (everyone in your group should have a separate sheet of paper with your names written on top with an explanation)

Category	Group 1	Group 2	Group 3	Group 4	Group 5
Is the model labeled?					
Clarity in the written explanation					
Does the model try to represent the motion of the Earth, Moon, and Sun?					
Is the model logical based on the apparent motions that we learned about?					
Total points					

What is a **geocentric model**?

What is a **heliocentric model**?

	Heliocentric model	Geocentric model
What is at the center of the model?		
Describe Earth's motion		
Describe the motion of other objects		

Homework: On a separate sheet of paper 1) Read and outline page 63-64 2) Complete questions 15-19 on page 65. Write them out as a complete statement, draw diagrams if they are part of the question.

Scientists tried to make sense of the apparent motions they observed by creating models. Your group will work together to create a model of the Earth, Sun, and Moon.

Your model must include the following:

- Labels (Earth, Sun, Moon)
- Something to show the direction of the objects' movements
- A written explanation of your model (everyone in your group should have a separate sheet of paper with your names written on top with an explanation)

Category	Group 1	Group 2	Group 3	Group 4	Group 5
Is the model labeled?					
Clarity in the written explanation					
Does the model try to represent the motion of the Earth, Moon, and Sun?					
Is the model logical based on the apparent motions that we learned about?					
Total points					

What is a **geocentric model**?

What is a **heliocentric model**?

	Heliocentric model	Geocentric model
What is at the center of the model?		
Describe Earth's motion		
Describe the motion of other objects		

Homework: On a separate sheet of paper 1) Read and outline page 63-64 2) Complete questions 15-19 on page 65. Write them out as a complete statement, draw diagrams if they are part of the question.