

Rewind the Clock

How did the Earth form?

Name: _____

Period: _____ Date: _____

Purpose: To develop a set of model ideas that helps us to understand how the Earth formed.

Instructions:

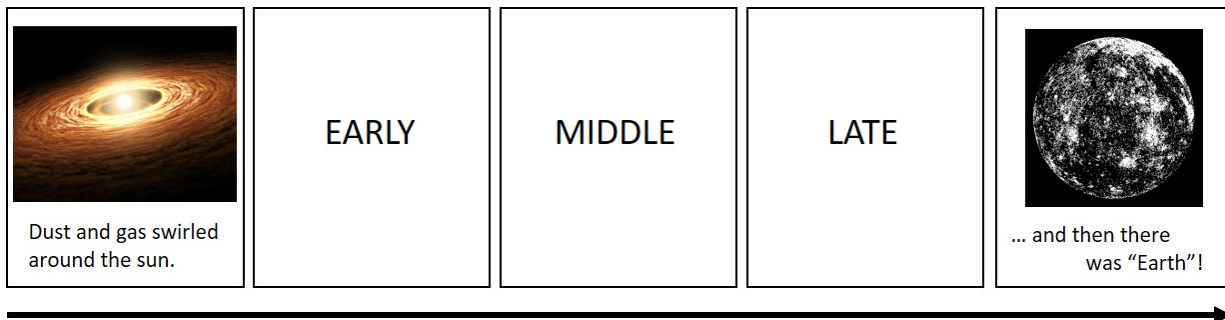
Work in teams to develop a **model for the formation of the Earth's geosphere.**

- We're really trying to figure out where all of the stuff (the matter) came from and how it made a planet.
- But you'll also want to keep in mind that we've been learning about energy too. How might that play in?

Keep in mind the following:

- We have some criteria about models: what makes a good model is and what a model is for.
- Also keep in mind this is our first draft model, so be open to lots of ideas in your groups!
- We already know a LOT! We've been tracking what we've learned over the past several days. What ideas might you use from class to help your group develop a model for Earth's formation?
- A model is NOT a drawing, but a drawing may be part of a model. Don't forget to include labels, text, and questions in the poster your group creates.
- You'll need your writing and labels to be large and legible (readable) so that your classmates can easily see and read them.

You'll develop your model using a three-panel drawing that fills in the missing pieces in the representation below—an early snapshot of how Earth started to form, a snap shot mid-way through the process, and a final drawing that connects your middle time point to the final panel shown below.



Tips for Completing the Work:

- Get organized. Talk about your ideas for a few minutes before drawing. Consider using talking sticks so that everyone has a chance to contribute their ideas. You don't want to miss anyone since some really amazing ideas could be hidden in anyone's brain! 😊
- Divide the work so that no one is left sitting idle. A couple of you can draw while others write. Still others can go back through their notes or look at the class records of what we've learned to inspire the group.
- Create space on your poster for edits or addition of ideas. Make your drawings larger than you think you should. This will help to create space for labels and changes.

Once you've had a chance to work for a while in your groups, we'll look at each other's posters for ideas. Our ultimate goal will be to come up with a pretty good class consensus about how this might have happened and to record any questions we still have or ideas we aren't completely certain about.

Let's get to work!