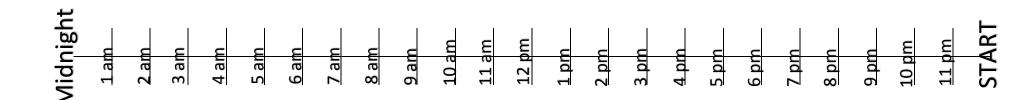
## "Origins: Earth is Born" Worksheet

## https://www.youtube.com/watch?v=qZpcq9laBj4

During the video, fill in the time line below of events that have happened in Earth's history. This is based on a 24-hour time period. You will also need to be answering the questions below, and YES they ARE in order!



- 1. Was the moon closer or farther when the Earth was younger?
- 2. If we imagine Earth's total 4.45 billion year history to e over the span of one day, how long ago did humans begin to walk the earth?
- 3. What is the name of the small early planets, which formed through gravitational attraction reaching sizes of a few miles to eventually the size of our moon?
- 4. When the Earth first formed (at midnight on our 24-hour clock of Earth's history), what was the Earth like?

- 5. What type of object can give us information about the conditions in which the solid planets (like Earth) formed?
- 6. What are scientists able to calculate from the radioactive elements found in a meteorite that decay at a particular rate?
- 7. What name do scientists give to Earth when the outer surface was completely molten?
- 8. During this time when the Earth was liquid rock, what type of elements sank toward Earth's center?

	s the magnetic north pole's movement picking up speed or slowing down over ore recent years?	17. What are two possible sources of the water on the Earth's surface today?
_	Earth's iron core creates a magnetic field which protects the planet rom	18. What special kind of water do scientists look at in the ocean and in comets to see if the proportions match?
	What planet is believed to have once had a magnetic field that disappeared when the planet's iron core is cooled?	
		AFTER VIDEO
	When scientists used radioactive dating on rocks from the moon,	List three things you already knew from the video.
	how did the moon's age compare to Earth's age? Was the composition (material) of the rocks the same or different from the Earth?	1.
E		2.
		3.
	The leading theory for the moon's formation involves what catastrophic event?	List three things you learned from the video.
		1.
14. F	How quickly is the moon moving away from the Earth?	2.
		3.
	What are scientists trying to determining when they look at the age of zircons in Australia?	List two things that still confuse you or you have further questions bout from the video.
		1.
	How long ago were there at least islands of continental crust on Earth?	2.