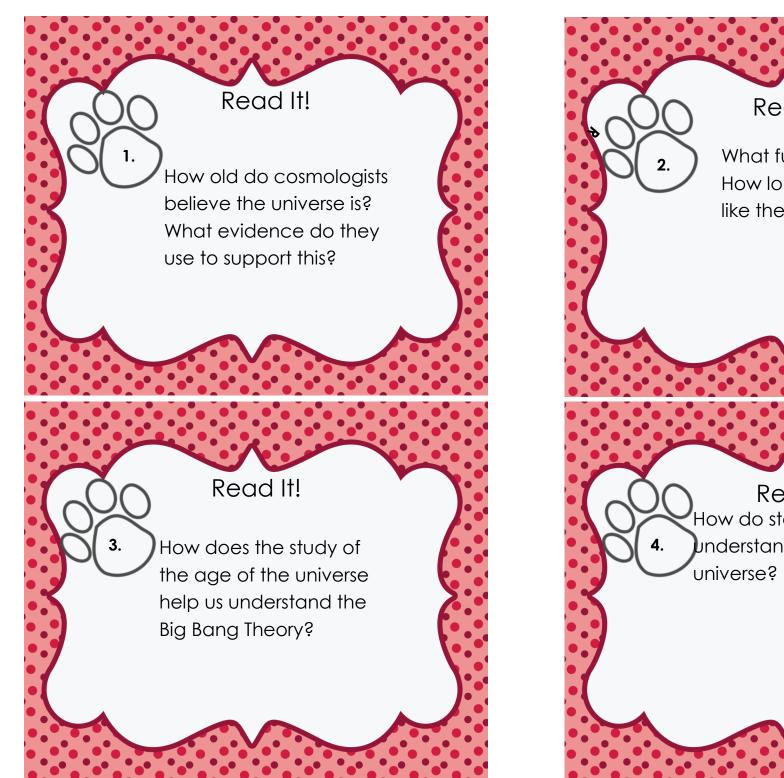
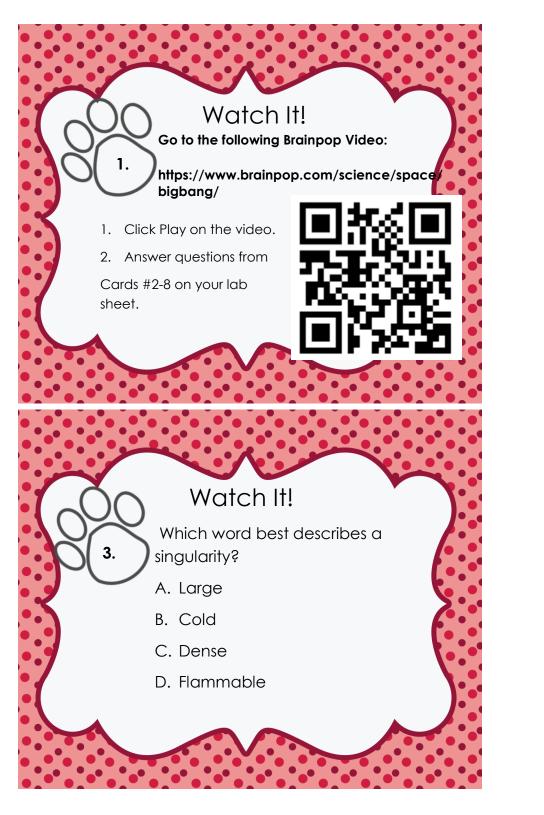
Read it: https://newsela.com/read/lib-nasa-size-age-universe/id/23731/

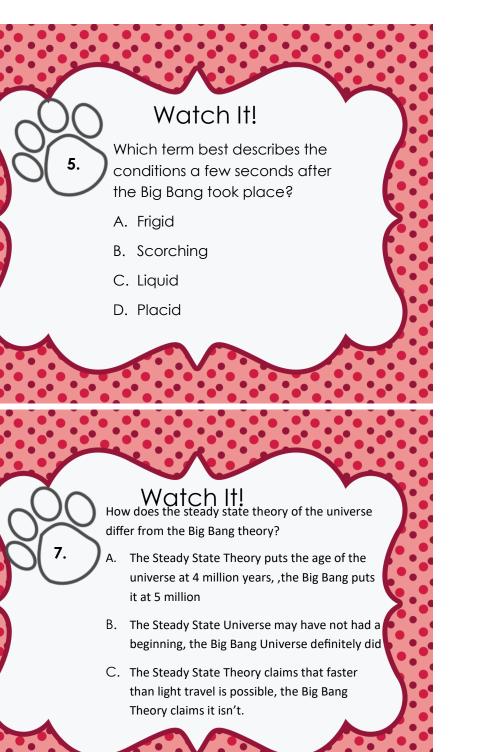
Available in different lexiles.







# Watch It! Where is the center of the universe located? 2. A. There is no center of the universe B. At the center of the Milky Way Galaxy C. 14.5 Billion light years away from Earth D. In a large singularity near the Andromeda Galaxy. Watch It! What was contained in the singularity that gave rise to the big bang? A. Gamma rays B. Electrons in a highly excited state C. One atom of every known element in our universe D. All of the mass, energy and time in our universe.



### Watch It!

- What do the initial moments after the Big Bang have in common with the universe as it exists now?
- All of the stars, galaxies and planets that exist to day formed just a few moments after the Big Bang.
- B. The universe back then could not sustain life and it can not sustain life now
- C. The universe began expanding then, and it is still expanding today

### Watch It!

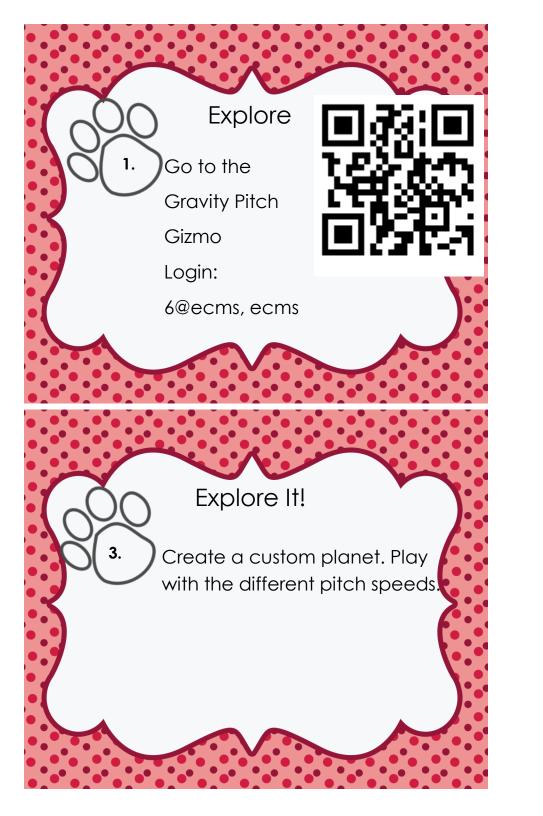
Place the following in sequence: A) Hubble makes his discoveries; B) Cosmic background radiation is first detected; C) Lemaitre proposes his theory

A. ABC

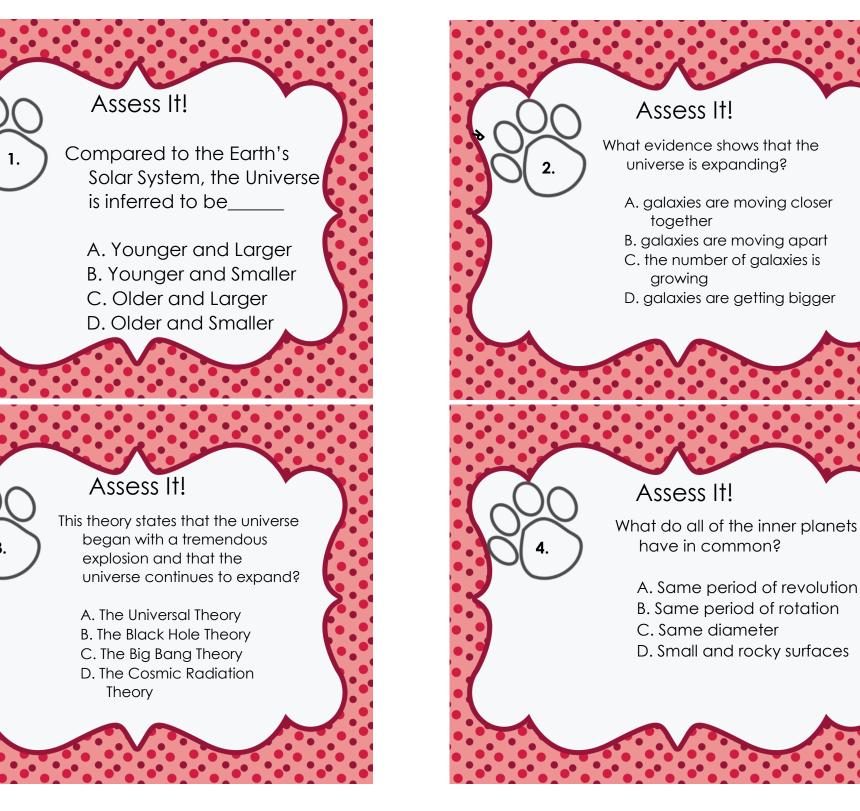
6.

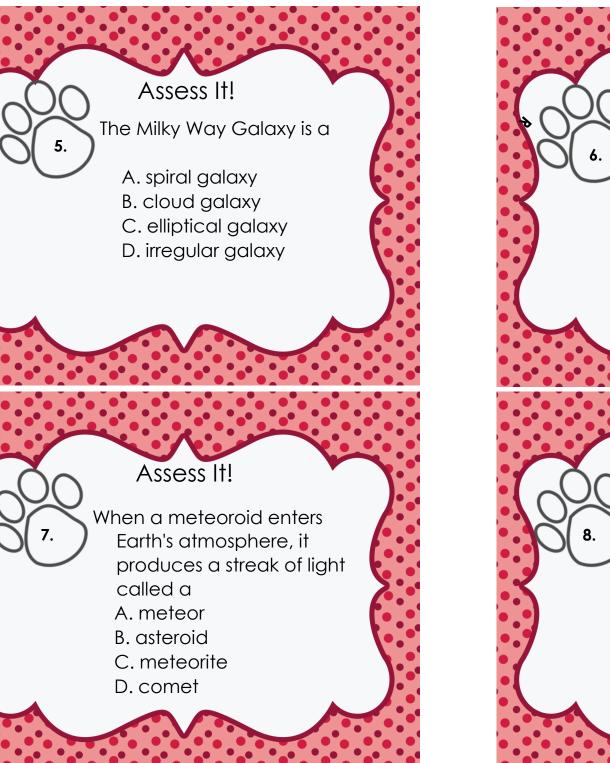
8.

- B. BCAC. CAB
- D. CBA

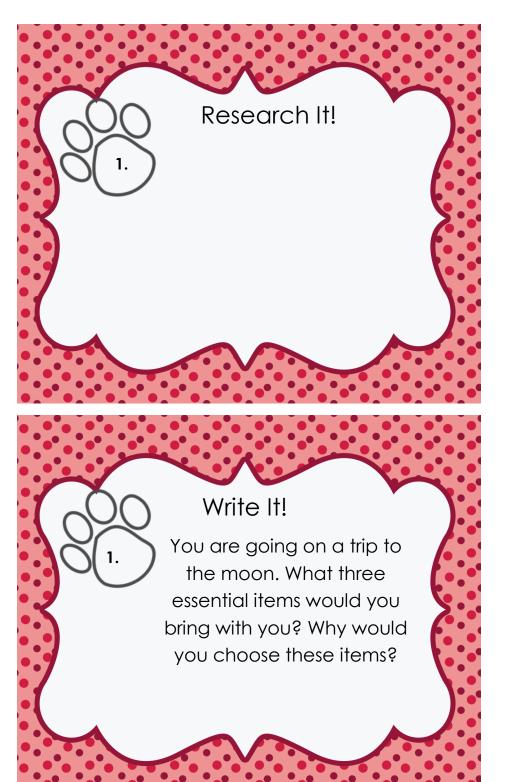


Explore It! Gravity on Earth: 2. Why do objects go around (orbit) other objects? Explore the different speeds of pitch and see what happens to the ball. Sketch the "trajectory" of the ball (how the ball flies) on the answer sheet. Research It! How do comets, 1. asteroids and meteorites influence life on Earth? Answer for EACH object.





# Assess It! What shape are the orbits of most comets? A. long, narrow ellipses B. circles C. nearly circular ellipses D. spherical Assess It! One piece of evidence that supports the big bang theory is the observation that most galaxies are moving A. toward our galaxy B. toward one another C. in random directions D. away from one another



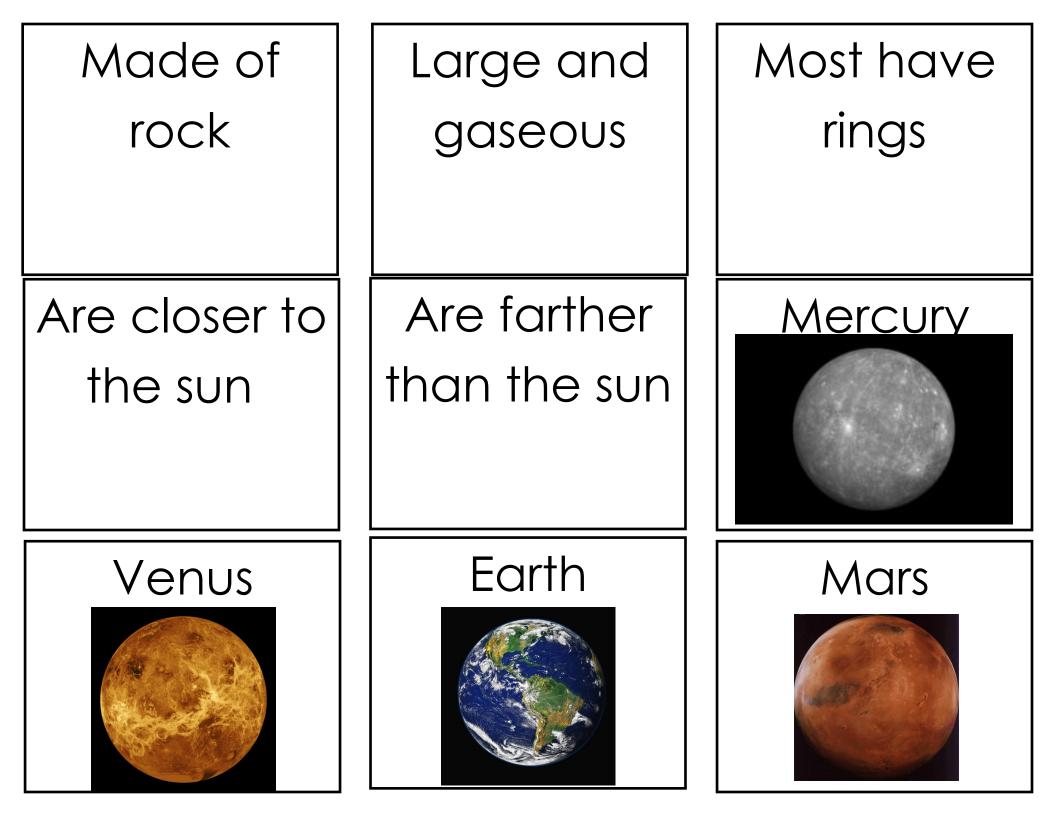
Illustrate It!

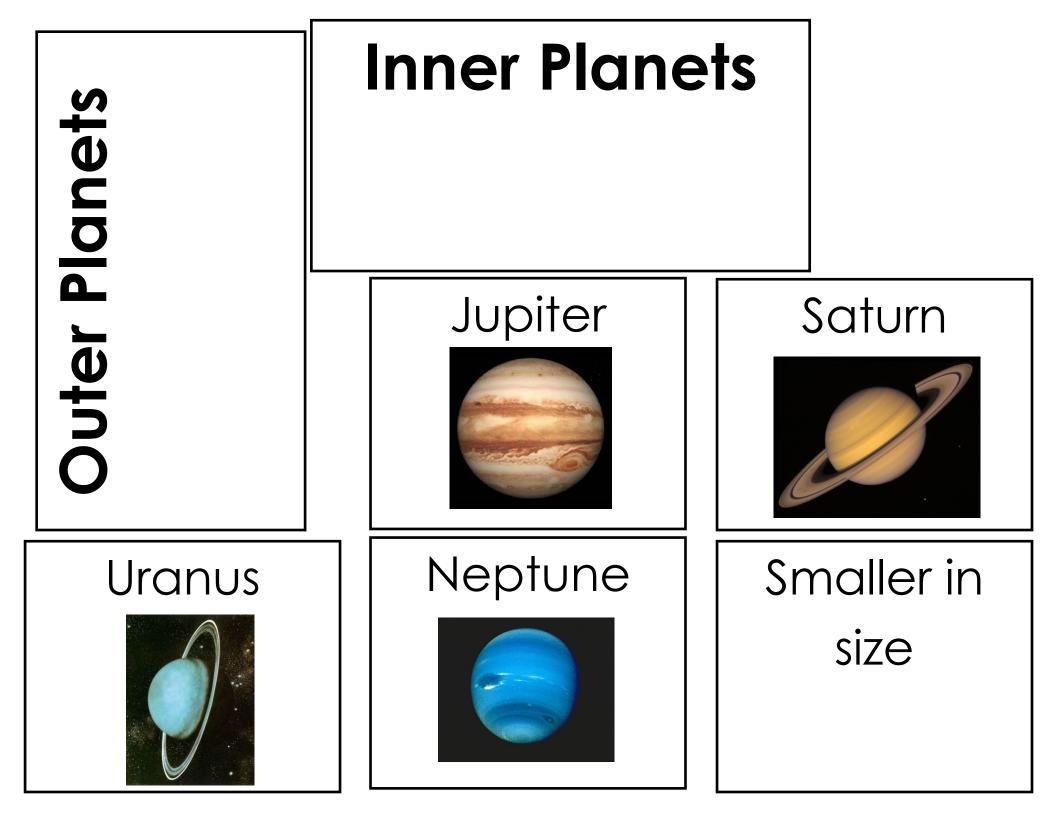
1. Draw the Heliocentric model of the universe and the Geocentric model of the universe. Label the sun and the planets.

#### Write It!

2

Which planet would be easiest for humans to colonize? What features of the planet would make it the ideal location for humans to move?





Name:	Class:	Date:		Explore It! Co	ontinued	
	Input Stations Explore It! buld the trajectory of the bal	-	Task Card 3; Create planet? What velocity	What is the ra	dius of your p	lanet?
Velocity: 0.0 km/s (0 mph)	cher throws harder and hard Draw your results:		1. 2.	Read	it!	
3.0 km/s (6711 mph)			3. 4.			
5.0 km/s (11,185 mph)			View the Brainpop Vide 2	Watch o and answer qu 4	estions on task c	
7.0 km/s (15,689 mph)				5 Researc		
8.0 km/s (17,896 mph)			Comets- Asteroids-			
12 km/s (26,843 mph)			Meteorites-			

Output Stations	Output Stations Continued			
Write It!	Illustrate It!			
Task Card 1:	Don't forget to label your diagrams!			
Task Card 2:	Assess If!    1. 2. 3. 4.    5. 6. 7. 8.    Organize It!    Teacher Initials:			
	<b>Reflection:</b> How did you do? What did you find easy? What mistakes did you make?			