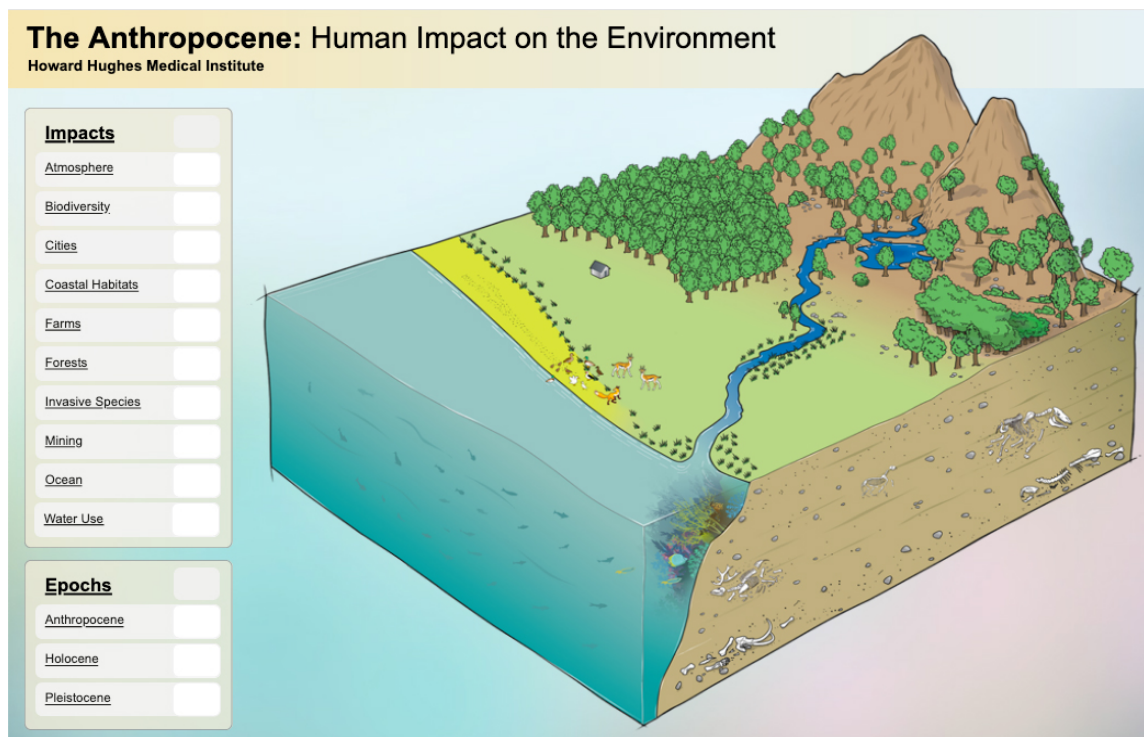


**(A) Anthropocene Recording Sheet**

Name: \_\_\_\_\_

Open up **The Anthropocene: Human Impact on the Environment** on your computer:  
<https://media.hhmi.org/biointeractive/click/anthropocene/>

1. Check off the impacts as you view them and then rank them in order according to what you think are the **three biggest impacts** on Earth today and **explain why** you feel this way. 1 = highest impact, 2 = lower impact, and 3 = lowest impact



**Impacts**

**Reason(s) behind your ranking?**

<b>1</b>		
<b>2</b>		
<b>3</b>		

**(B) Mass Extinction (Mammals) Recording Sheet**

Name: \_\_\_\_\_

As you are following one of the **mammal pathways** in the *Surviving Extinction* game, record the age, name, environmental changes that were occurring during the time of the extinction, and the theory for the group's extinction for each *Extinction Animal* you encounter along the pathway. Also, pay attention to the animals that rose to dominance after the extinction event. If you miss the extinction animals, you can go back down your pathway and choose other animals to find them.

No.	Time (millions of years)	Extinction Animal Name	Environmental changes during time of extinction	Theory for group's extinction	Name at least one other group that has survived and diversified
1					
2					
3					
4					
5					
6					
7					

**(C) Mass Extinction (Dinosaurs/Birds) Recording Sheet**

Name: \_\_\_\_\_

As you are following one of the **bird pathways** in the *Surviving Extinction* game, record the age, name, environmental changes that were occurring during the time of the extinction, and the theory for the group's extinction for each *Extinction Animal* you encounter along the pathway. Also, pay attention to the animals that rose to dominance after the extinction event. If you miss the extinction animals, you can go back down your pathway and choose other animals to find them.

No.	Time (millions of years)	Extinction Animal Name	Environmental changes during time of extinction	Theory for group's extinction	Name at least one other group that has survived and diversified
1					
2					
3					
4					
5					
6					
7					
8					

**(D) Mass Extinction Causes and Ranking**

Name: \_\_\_\_\_

**Part A.** Based on the information that you recorded in **(B) Mass Extinction (Mammals) Recording Sheet** list and explain three causes of mass extinctions.

	Time (millions of years)	Main cause or causes?
1		
2		
3		
4		

**Part B.** Based on the information in *The Making of Mass Extinctions* interactive, rank the “Big Five” mass extinctions in terms of the percentage of species that died out. 1 = greatest % to 5 = lowest %

Rank	% Species extinct	Mass extinction name	Time of mass extinction (millions of years)	What main groups went extinct?
1				
2				
3				
4				
5				

**(F) Mass Extinction Survey**

Name: \_\_\_\_\_

**Complete the following:**

1. Which of the following groups of animals went extinct 66 million years ago?
  - a. Mammals
  - b. Birds
  - c. Reptiles
  - d. Dinosaurs
  
2. What environmental changes led to the dinosaur's extinction 66 million years ago?
  - a. Massive flooding and earthquakes
  - b. Reversal of the Earth's magnetic field
  - c. Asteroid impact and volcanic eruptions
  - d. Gamma ray burst from space
  - e. None of these
  
3. What does it mean when a group of animals goes extinct?
  - a. Disappearance of a group from one area because it has moved away
  - b. Appearance of a group in an area where it has never lived before
  - c. Total disappearance of a group on Earth
  - d. Disappearance of a group with reappearance of it later in time
  - e. None of these
  
4. Which one of these mass extinctions was the largest that the Earth has ever experienced?
  - a. Cretaceous-Paleogene (K-T or K-Pg) boundary 66 million years ago
  - b. Permian-Triassic (P-T) boundary 252 million years ago
  - c. Triassic-Jurassic (T-J) boundary 201 million years ago
  - d. Cambrian-Ordovician (C-O) boundary 485 million years ago
  
5. Over the past 500 million years, life on Earth has experienced five main mass extinctions. Have you heard of the sixth extinction? If so, explain what could be causing this mass extinction.