

Name: _____

Date: _____ Period: _____

Movie Sheets

The Physical Setting: Earth Science

Movie Sheet: Chasing Ice

Before: Define the following terms before watching Chasing Ice?

1. Glacier -
2. Glacial Advance -
3. Calving -
4. Glacial Retreat -
5. Climate Change -
6. Greenhouse Gases -
7. Carbon Dioxide (CO₂) -
8. Cryoconite -
9. Moulins -
10. Sea level -

During: Answer the following questions as you watch Chasing Ice.

1. What is the name of the project that James Balog created to document how the landscape was changing using twenty-five cameras shooting for three years?
2. What type of environmental conditions do the camera systems need to withstand for three years?

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3. What do Scientists use to measure past climate conditions, specifically CO₂?
4. What is the world's CO₂ content today?
5. How do the cryoconite holes speed up the melting of the Greenland glaciers?
6. How much is sea level expected to rise during the span of his daughter's lifetime?
7. How many people are expected to be displaced if sea level continues to rise?
8. How many of the 1,400 glaciers in the Yukon Territory advanced from 1958 through 2008?
9. How large was the calving event that took place at the Ilulissat Glacier?
10. From 1902 to 2000 the Ilulissat Glacier retreated 8 miles. How far did it retreat from 2001 to 2010?

After: Answer the following questions now that you have seen Chasing Ice.

1. What global issues are addressed in this film and list the supporting evidence?
2. Do you think individual acts are effective tools for changing the current climate trend?

If yes, provide two suggestions on what we can do as individuals.

If no, explain your answer in detail.