

Rationales: General Framework

The Snowbowl Effect

The Science Department has carefully evaluated the documentary *The Snowbowl Effect* as a whole and deemed it worthy for the 7th grade science curriculum.

I. PLOT SUMMARY

This documentary film explores the controversy surrounding the recently proposed ski resort expansion and snowmaking with wastewater on the San Francisco Peaks as Native American tribal officials and spiritual leaders, Forest Service officials, and concerned citizens discuss the issues: sacred lands protection, public health concerns associated with groundbreaking studies on wastewater, economic misconceptions, threats to the environment, global warming and a small community (Flagstaff) caught in the conflict.

II. LEARNING OBJECTIVES BASED ON STANDARDS

This film is in alignment with Arizona 7th grade science standards Strand 3 addressing science in personal and social perspectives and specifically Concept 1 and 2, PO 1 – 3 and PO 1 – 4 in analyzing environmental risks caused by human interaction with biological systems as well as coming up with possible solutions.

Students will understand the issues surrounding using reclaimed water on the San Francisco Peaks and the controversy that surrounds it. They will be asked to make a stand and debate this issue based on the information presented in class as well as labs where they tested the water quality of reclaimed water using chemical and biological testing methods

This is part of a bigger unit involving activities such as research, hands-on lab with water testing, class discussions, graphing and finally culminates with the movie to tie together the unit on a topic that is controversial in Flagstaff.

CCSS.ELA-Literacy.RST.6-8.9

Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic.

III. SENSITIVE SUBJECTS IN THE TEXT AND HOW POSSIBLE OBJECTIONS WILL BE HANDLED

None. The student is encouraged to feel comfortable expressing his/her beliefs and views openly within the classroom environment. If the student is uncomfortable at any time, the student should meet with the teacher to discuss his/her concerns.