**GEOLOGY: VAGABONDS TRAMPING THROUGH GEOLOGY: AUSTIN TO THE ARCTIC**

**Winter 2012**

**Week 1 – Getting to the Pacific (Rocky)**

* + - Geology
      * + Earth Composition
        + Plate tectonics
        + Geologic time scale
    - Vagabond travels to the West Coast
      * + Becoming vagabonds
        + Caverns - Carlsbad Caverns, New Mexico
        + Craters - Meteor Crater, Arizona

**Week 2 –West Coast USA (Sandi)**

* + - Geology
      * + Rock cycle & rock types
        + Folds & faults
        + Weathering & Erosion
    - Vagabonds in California
      * + Yosemite National Park
        + Lakes Tahoe
        + Giant Redwoods National Park

**Week 3 – West Coast USA (Rocky)**

* + - Geology
      * + Subduction zones
        + Volcanoes: mountain building, hot spots, basalt floods
    - Vagabonds in Oregon/Washington
      * + Columbia River
        + Mount St. Helens
        + Crater Lake

**Week 4 –British Columbia & the Yukon (Sandi)**

* + - Geology
      * + Ice Ages & glaciation
        + Exotic terranes
    - Vagabonds in British Columbia & the Yukon
      * + The coast and the mountains
        + Early peoples: First nations, Russians, 1898 gold rushers
        + Human pathways: Al-can Highway, Alaska Marine highway

**Week 5 –Alaska – Part 1 (Rocky)**

* + - Geology
      * + Earthquakes & Tsunamis
    - Vagabonds in Alaska
      * + 1964 Alaska earthquake
        + Alaska oil & the pipeline

**Week 6 – Alaska – Part 2 (Sandi)**

* + - Geology
      * + Ring of Fire
    - Vagabonds in Alaska
      * + Mt McKinley& Denali National Park
        + The Arctic Circle

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