How Volcanoes Work: Pre-Quiz

A) Vocabulary:

- **Magma**: molten rock
- **Lava**: magma that erupts onto the earth’s surface
- **Effusive**: volcanic eruption that produces lava flows
- **Explosive**: volcanic eruption that produces volcanic ash
- **Exsolve**: opposite of dissolve (when gases exsolve from a magma, they form gas bubbles)
- **Shield volcano**: a gently sloping volcano, made of lava flows
- **Tuff cone**: steep-sided volcano made of volcanic ash (tuff = consolidated ash)
- **Protractor**: a tool used to measure angles

B) Volcano Quiz  (True or False)

1) Hawaiian islands are formed by volcanoes
2) All islands are formed by volcanoes
3) Diamond Head is made of lava
4) Hawai‘i has volcanoes because it’s on a boundary between two tectonic plates
5) Hawai‘i is located on a hot spot
Answers to Quiz: How Volcanoes Work

1) True (every island in Hawai‘i is formed by one or more volcanoes)
2) False (some islands are made of coral)
3) False (Diamond Head – and many steep-sided volcanoes, are made of volcanic ash)
4) False (Hawai‘i is in the middle of the Pacific plate)
5) True (The hotspot is SE of the Big Island, where Lo‘ihi is forming)

SEE POST-QUIZ BELOW
How Volcanoes Work: Post-Quiz

A) Vocabulary (write the definition beside each answer, or a sentence clearly showing the meaning of the word or phrase)

1. Magma:
2. Lava:
3. Effusive:
4. Explosive:
5. Exsolve:
6. Shield volcano:
7. Tuff cone:
8. Protractor:

B) Volcano Quiz
(write the word True or False beside each answer)

1) Hawaiian islands are formed by volcanoes
2) All islands are formed by volcanoes
3) Diamond Head is made of lava
4) Hawai‘i has volcanoes because it’s on a boundary between two tectonic plates
5) Hawai‘i is located on a hot spot