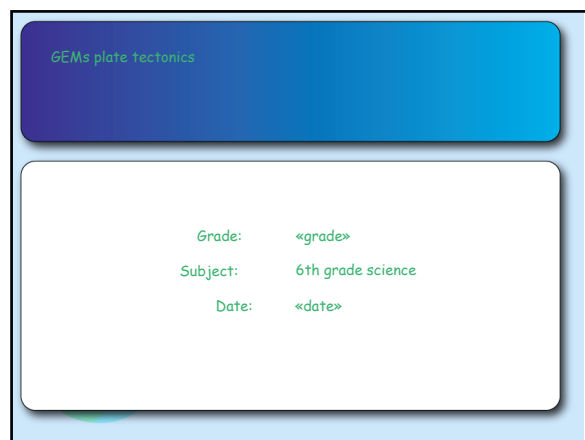


## GEMs plate tectonics



- 1 The Earth's surface changes over time.  
True  
  
False
  
- 2 The Earth's surface is shaped by...  
A a tremendous amount of energy  
B a tremendous amount of time  
C a tremendous amount of meteorites  
D A and B
  
- 3 Scientists who use observations of present day processes to find clues to the past (and future) are...  
A Bioengineers  
B Geologists  
C Meteorologists  
D Wizards
  
- 4 The San Andreas Fault is an example of a  
A Subduction Zone  
B Transform Boundary  
C Convergent Boundary  
D Divergent Boundary

5 Earthquakes happen in predictable locations.

True

False

6 Another term for tectonic plates

is lithospheric plates

True

False

7 High silica content magma

A Has low viscosity

B Is the hottest magma

C Looks black like basalt

D Has lots of crystals

8 Magma of low viscosity probably

came from the upper,

less-hot part of the mantle.

True

False

- 9 The Hawaiian islands were formed by
- A Pacific Plate Subduction
  - B Pacific Plate Convergence
  - C The Goddess Pele
  - D Pacific Plate moving over a "hot spot".

10 **Japanese volcanoes are**

- A high silica content low viscosity
- B high silica content high viscosity
- C low silica content high viscosity
- D low silica content low viscosity

- 11 **Strato volcanoes are evidence**  
**of subduction.**

True

False

