Plate Tectonics Laboratory

Record your answers in the Concepts of Science lab book under Lab 10.
How many major, large plates are there?

How many small, minor plates are there?
Topography of the continents and sea-floor of part of the Earth
Activity 2, Figure 1 - overview
Topography of the continents and sea-floor of part of the Earth
Activity 2, Figure 2 – divergent plate boundaries
Topography of the continents and sea-floor of part of the Earth
Activity 2, Figure 3 – convergent plate boundary
Volcanic hot spots – continents and sea-floor of part of the Earth
Activity 3, Figure 1

Iceland

Hawai'i
Hawaiian islands – Pacific plate moving over a stable hot spot
Activity 3, Figure 2

What is the rate of motion?

Oahu (max. 3.4 m.y.)

Molokai (max. 1.8 m.y.)

Maui (max. 1.3 m.y.)

Hawai’i (presently active)
What is the rate of motion?

- Oahu (max. 3.4 m.y.)
- Molokai (max. 1.8 m.y.)
- Maui (max. 1.3 m.y.)
- Hawai‘i (presently active)
Iceland – spreading ridge over a hot spot
Activity 3, Figure 3
Iceland – spreading ridge over a hot spot
Activity 3, Figure 4
Iceland – spreading ridge over a hot spot
Activity 3, Figure 5