

## *Mangrove Facts*

### **Mangrove Protection**

Mangroves are trees that \_\_\_\_\_ in coastal swamps. They have many tangled roots which grow above the ground. It is vital to protect mangrove forests.

### **Red mangrove**

The seedlings of red mangroves are attached to their parents' trees and germinate. When they are released to the sea, they can either take root with their parent trees or be carried to a suitable environment by the tides. This type of germination \_\_\_\_\_ them more resistant to disease and natural disasters.

They are unique and can thrive in saltwater. Their roots \_\_\_\_\_ oxygen reach their pores and filter out salt water. Their bark, leaves, and seeds can be used to make food and natural dyes.

### **Pneumatophores**

These special roots extract oxygen from saltwater. Because they have small pores, oxygen can diffuse into the root. Their large surface area \_\_\_\_\_ for more oxygen to be absorbed. This process is not yet understood. Here are some possible mechanisms.

### **Cable roots**

Tangled roots \_\_\_\_\_ stability and oxygen access. Their cone-shaped lobes act as snorkels in areas that are partially flooded. These roots also have lenticels that repel water.

### **Phytoplankton**

Primary producer of mangrove estuaries, they are essential for the productivity of the fishing industry. It is a major component of the marine food chain and a primary source of food. They \_\_\_\_\_ biodiversity and the functioning of the marine food chain.

### **Algae**

They mostly grow on sediments and tree roots. Their dense biomass \_\_\_\_\_ water from passing through the pneumatophores which allows oxygen to penetrate roots. Then, barks fall from the roots (decertification).

### **Shrimp farming**

While they have many benefits, the negative effects of this activity far \_\_\_\_\_ the economic and environmental benefits. Mangrove areas were lost in eight countries between 1980 and 2005. 51.9% of it was converted to shrimp farming.

Match the pictures to the phonetic symbols.  
Then pronounce the words.

<i>/ˈæɪ.lgi:/</i>	<i>/ˈes.tu.ər.i/</i>	<i>/rʊts/</i>	<i>/si:/</i>	<i>/ˈsnɔːr.kəl/</i>	<i>/ʃrɪmp/</i>
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