TIDAL WAVE: HYDROELECTRICITY **WORKSHEET**

1. Watch the video and fill in the words in the missing words.

Imagine the time the _____ ocean _____ to strike planet's surface, we've only begun to tap them already at coastal cities. But there are other power sources: ways to tap which the ocean to make _____ electricity.

_____ power will the good _____ energy course of the 21st century and it will contribute to provide _____ citizens, but with most of the world's _____ already dammed, the future of tidal _____ will come from the sea.

In the various technologies to capture the ocean's energy, tidal barrage is the closest in design to conventional hydro power.

Barrage is essentially a _____ building across from high _____ and shares significant potential energy for power generation, channeling the water through _____ when released during low _____.

The ancient Romans and Celtics used barrage on to drive mills, harnessing the power in _____. Today it still powers _____ homes.

Unlike recent technologies known as tidal stream power uses _____ the turbines to capture the connecting energy of underwater _____.

2. Watch the video and answer the questions.

Tidal Energy and Lynmouth, England

- What is a Pendulum Gas Extractor and describe difference of dealing with marine environment?

_____

_____

- What is a tidal fence?

_____

- Why is tidal power potentially a more reliable or as we believe? Give one reason? Why?

_____

_____

_____

3. Watch the video and fill in the words with the missing words given below.

Wave power is several ocean technologies. Ocean energy includes wave power, tidal power, and thermal energy. Wave power is the power of surface ocean waves to generate _____ and other usefulness of the water. Wave energy is converted by hydraulic _____ located in the _____. This action pumps high pressure oil through hydraulic _____ which drive electrical _____ _____ electricity. Wave also keep the floating power _____ tethered to the ocean floor.

Words: generators - hydro - power - turbine - pipes - piston - water - transmission