

Topic/Objectives: 18-1 Biomass & Geothermal Energy; (1) Explain the benefits and current status of renewable energy resources; (2) Define biomass energy and explain how it is used; (3) Describe how geothermal energy is harnessed and used.	Name:
	Date:
	Period:

Essential Question: How can we use biomass energy and geothermal energy?

Questions:	Notes:		
	_____ are needed to replace fossil fuels, reduce air pollution, and reduce greenhouse gas emission. <ul style="list-style-type: none"> Renewable Energy Benefits: <ul style="list-style-type: none"> Renewable resources are _____ to run out. Alternative energy resources provide less dependence on _____. Renewable energy will help created _____ in design, construction and maintenance. _____ of the world’s energy use currently comes from fossil fuels. 		
	Energy derived from _____ is used for cooking, heating, powering motor vehicles, and electricity. <ul style="list-style-type: none"> _____ is energy produced from living organisms or their remnants. More than _____ people still burn wood as their main energy source. _____, such as ethanol and biodiesel, can be used to cut down on harmful emissions. Electricity generated from biomass (_____) can include fast-growing plants, waste, and methane generated from bacterial decay. 		
	Benefits of Biomass Energy <ul style="list-style-type: none"> Biomass releases no net carbon in to the atmosphere. Biomass is distributed worldwide. 	Costs of Biomass Energy <ul style="list-style-type: none"> Takes up land that can be used to grow food. Can cause soil erosion, deforestation, and desertification. Not renewable if used faster than its produced. Inefficient because farming equipment uses fossil fuels. If burned inside it is harmful to human health. 	

Steam and hot water produced by _____ can be used to generate electricity and for heating.

- _____ is energy produced from the combination of high pressure and the breakdown of elements deep under the Earth's surface.
- Geothermal energy can be harnessed from surface supplies (such as _____) or deep drilling.
- Geothermal energy projects may not be _____, contain chemicals that can damage equipment and add to pollution, and even trigger _____.

Summary:

[illegible]