Worksheet (Secondary School Version)

Name:	Class: () Date:
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A. Climate Change

Climate change leads to the occurrence of natural hazards. What are you most afraid of?



More frequent and severe weather events



Rising sea level and flooding



Changing ecosystem and species extinction



Food and water shortages

In order to meet the energy demand while reducing our carbon emissions, we need to move away from _____ and adopt diversified low carbon energy sources.

B. Renewable Energy

Match the renewable energy sources with the corresponding natural resources and geographical condition it requires. (Can match with more than one item)

- Solar Power
- Hydro Power

 O
- Wind Power

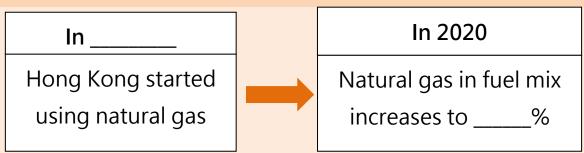
 O
- Tidal Power

- Enough supply of land
- Plentiful sunshine
- Sufficient wind resources
- Adequate river resources
 - Coastal landscape which can store large amount of seawater

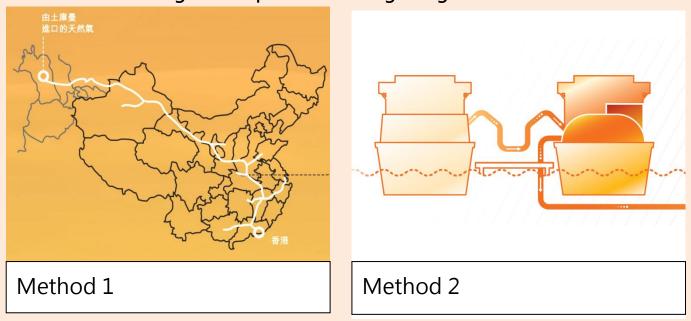
Which renewable energy is most commonly used in Hong Kong?

Can we only rely on renewable energy in Hong Kong? Why?

C. Natural Gas



How is the natural gas transported to Hong Kong?

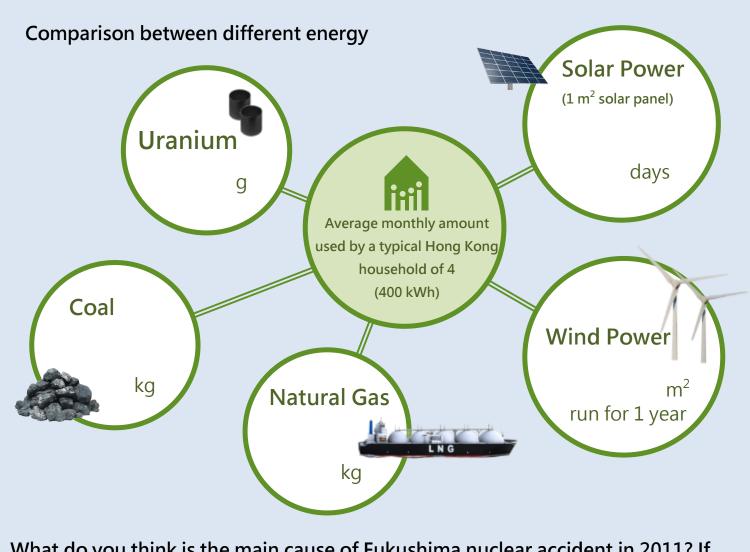


What are the advantages and disadvantages of setting up an offshore liquefied natural gas terminal in Hong Kong?

D. Nuclear Energy				
" chain reaction Safety Design in Daya Bay	on" are used	to generate elec	ctricity.	
,			Name:	3
Name:1			Function:	
Function:		4	Am-thick	<
Uranium fuel is	5	concrete structure with a		
sealed inside the			6mm-thick	
				_ houses
		1	the reactor pres	sure
Name:			vessel. The cont	ainment
Function:			building can wit	hstand
mm thick			the impact of a	
steel wall keeps	/ Hints:			·
	Containment Building	Reactor Pressure Vessel	large commercial aircraft	200
	steel interior	Fuel Cladding	metal alloy	900
within the primary	lining		cladding	
coolant circuit.	cooling water containing minute amount of radioactive material			al
Radiation and Daily Life		, or	Artificial	
Tadiation and Daily Life			radiation	%
Sources of radiation in our	daily life:			\ \ \ !

Natural

radiation____ %



What do you think is the main cause of Fukushima nuclear accident in 2011? If history can be rewritten, what could we do to prevent the accident from happening?

The Hong Kong SAR Government had formulated ______, which illustrated the measures Hong Kong needs to be taken when there is serious nuclear accident in Daya Bay.

Please list out 4 of the measures:	
1	
2	
3	
4	

E. Future Development

Are you willing to change your behaviour in daily life to help mitigate the
climate change? (√ if yes)

Avoid over-consumption and being wasteful with resources	
Bring your own cutlery when order take-away food	
Turn off electric appliances that are not used	
Take public transportation instead of car and taxi	
In order to lower carbon emission, what can we do in our daily life?	
If you were a government official of the Environment Bureau, what would	you
propose for Hong Kong's future fuel mix? How would you strike a balance	1
between the cost, emission and reliability?	