

MODEL LESSON PLAN

CLASS: 08 SUBJECT: PS Name of the Teacher: M.SRINIVASA RAO N

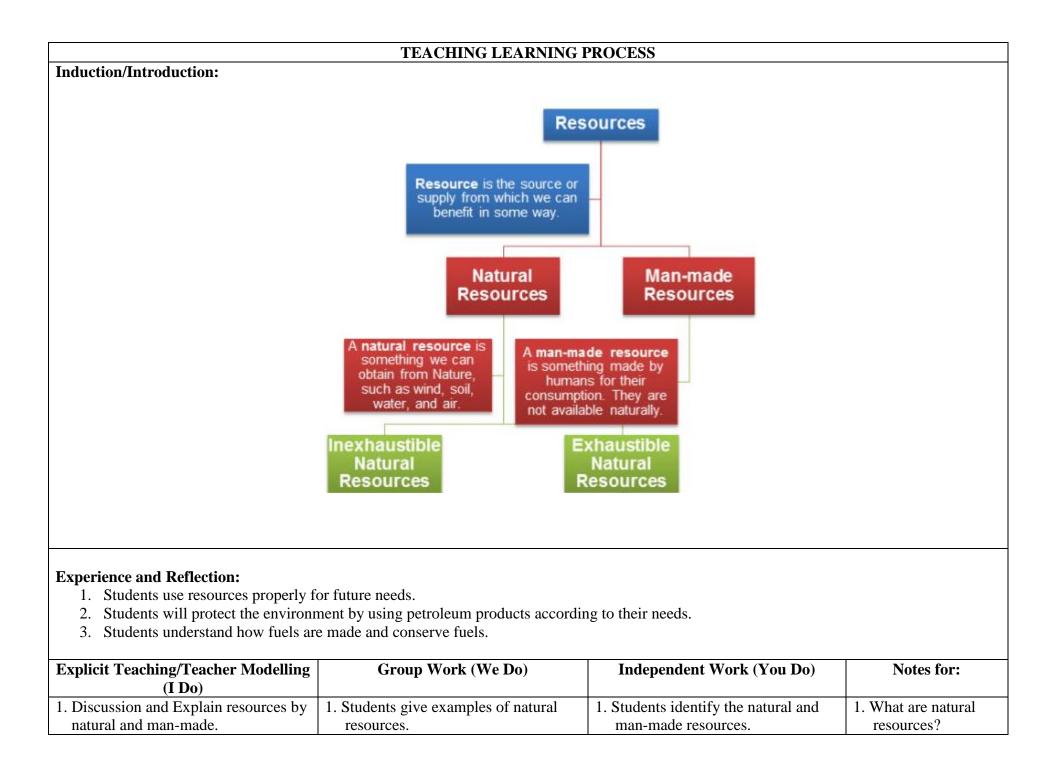
NIVASA RAO Name of the School: A.G.K.M.H.School, Gudivada

Name of the	Торіс	No.of Periods	Timeline fo	or teaching	Any specific
Lesson/Unit		Required	From	То	information
Coal and Petroleum (Chapter-3)	Natural resources	2	xx/xx/xxxx	xx/xx/xxxx	
	Coal	2	xx/xx/xxxx	xx/xx/xxxx	
	Coke - Coal Tar - Coal gas	2	xx/xx/xxxx	xx/xx/xxxx	
	Petroleum - Refining of Petroleum	3	xx/xx/xxxx	xx/xx/xxxx	
	Natural Gas	3	xx/xx/xxxx	xx/xx/xxxx	
	Some Natural Resources are Limited	3	xx/xx/xxxx	xx/xx/xxxx	

Prior Concept/Skills:

- 1. What fuel do you use to cook food?
- 2. Are these fuels man-made?
- 3. Do you know where the fuels used to run the vehicles come from?

Learning Outcomes:	
1. Classifies materials based on properties of exhaustible and inexhaustible natural resources.	2
2. Applies learning of scientific concepts in day-to-day life of using of natural resources.	1
3. Relates processes with causes of air pollutant by the utilization of exhaustible natural resources.	1
4. Explains processes of formation of petroleum.	2
5. Explains process and phenomenon of petroleum refining.	1
6. Draws labeled diagram of Petroleum and natural gas deposits.	1
7. Conducts simple investigations to seek answers to queries of petroleum refining.	1
8. Makes efforts to protect environment using of petroleum products judiciously.	2
9. Relates processes with causes of air pollutant by the utilization of exhaustible natural resources.	1
10. Applies learning of scientific concepts in day-to-day life of various constituents of petroleum and their uses.	1
11. Exhibits creativity in designing, planning, making use of various constituents of Petroleum.	1
12. Draws flow chart of uses of petroleum products.	1



2. Discussion and Explain Natural resources and their types.	2. Students make a survey on the energy consumption (coal, gas, electricity, petrol, kerosene etc,) and measures to conserve the energy of their neighborhood.	2. Students give examples of inexhaustible and exhaustible resources.	2.Can natural resources be replaced?
3. Explain coal and the story of coal.	3. Is coal fossil fuels? - Discuss	3. Students complete the homework.	3. Give any two uses of Coal
4. Discussion and Explain the products of coal.	4. Students prepare the uses of coal in table form	4. Students give the reason about Why is coal so black?	4. What are the different types of coals?
5. Explain the formation of petroleum.	5. Students collect some information about the coal and petroleum deposits in India and mark them in outline map of India and World map.	5. Find out the location of major thermal power plants in India. What could be the reasons for their being located at those places?	5. Where is the petroleum found in India?
6. Discussion and Explain the refining of petroleum.	6. Students explain the refining of petroleum in own way.	6. Students express the physical properties of petroleum.	6. What is the main principle of petroleum refining?
7. Explain various constituents of petroleum and their uses.	7. Students collect the information on various constituents of petroleum and their uses.	7. Students complete the homework.	7. Why should we use petroleum substance in limits?
8. Explain Natural gas.	8. What would happen if fossil fuels were banned? Discuss	8. Students expand the terms of CNG and LPG.	8. How is natural gas stored?
9. Discussion and Explain some natural resources are limited.	9. Collect the information on how to save petrol/diesel while driving.	9. What are the effects on the environment of burning fuels?	9. How does petroleum affect the environment?

Check For Understanding Questions	TLM's (Digital + Print)
1. Factual:	
1. Which coal is mostly found in India?	1. Used prepared
2. What are impurities in petroleum?	Quiz paper.
3. What are the most critical natural resources?	
	2. Utilized digital
2. Open Ended/Critical Thinking:	classroom.
1. Why is Petroleum called black gold?	
2. What happen if natural resources disappear?	3. Provide video links
3. What problems do people face when using natural resources?	QR codes, DIKSHA
4. How long can petrol be stored?	Арр
	4. YouTube video links.
3. Student Practice Questions & Activities:	
1. What are the advantages of using CNG and LPG as fuels?	
2. Explain why fossil fuels are exhaustible natural resources.	
3. Describe characteristics and uses of coke.	
4. Explain the process of formation of petroleum.	
Assessment:	
1. Suggest ways in which consumption of fuels can be reduced.	
2. Name the different constituents of petroleum and write their uses.	
3. What is refining? Why does petroleum require refining?	
4. Differentiate between exhaustible and inexhaustible natural resources.	

SIGNATURE OF THE TEACHER

SIGNATURE OF THE HEADMASTER

VISITING OFFICER WITH REMARKS