

CLASS – VI
LESSON PLAN
CHAPTER –16 Garbage In, Garbage Out

Unit	Chapter –16 Garbage In, Garbage Out
Class-Transaction	Total: 4 PERIODS (Approx 35min each)
Pre-requisite for the course	The lesson requires the basic knowledge of the term garbage and the methods of its disposal
Assessment of qualifying knowledge	1. Written test 2. Lab activity 3. Group Discussion 4. HW notebook
Objective	<i>Students will be able to</i> • Differentiate between biodegradable and non- biodegradable substances • Explain the process of Vermicomposting • Understand the ways of reducing waste
Learning Outcomes	KNOWLEDGE- <i>Students will know and understand</i> • the terms (a) Garbage (b) Landfill • the waste as the waste which rots and which does not rot • Explain the term (a) Vermicomposting (b) Recycling SKILLS AND COMPETENCIES- <i>Students would be able to</i> • Learn to deal with their garbage efficiently • Perform recycling • Design Creative methods to show dealing with garbage • Built character amongst themselves by telling others about importance of recycling
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Transaction would proceed in the following manner- <i>Brain Storming</i>-The class would start with a discussion on what the students have already learnt in the previous classes and hence what is it that they would learn now. They would also be told the significance of the topic that they would be studying. <i>Introduction of the topic-</i> <i>Group learning –</i> Think-pair -share- Students will read the topic again after teacher's explanation, think for a minute and then discuss in pair about the <i>biodegradable and non- biodegradable substances</i>

	<i>Guided practice followed by Independent Practice-</i> NCERT questions to be discussed in the classroom. Techniques to be used: Quiz Daily Practice Problem MCQ Peer Assessment Case Studies Lab Activities
Resources	Text Book NCERT text book for Science Reference Book CBSE Exemplar
Self Study, Home Work, Assignments	Independent Practice: Students would do the questions in their H.W notebooks as mentioned in the NCERT . HW notebooks to be marked as per the given plan: <i>Assessment Parameters:</i> The total marks for the activity is 5 marks On time submission.....1 mark Presentation/ Neatness.....1 mark Content.....3 marks It is also advised that the students come to the class with proper background knowledge of the topic under discussion. They can refer to the resources stated above.
Assessments	4 UNIT TESTS (25, 25, 25, 25).....100 Marks HALF YEARLY EXAMINATION..... 80 Marks ANNUAL BOARD EXAMINATION..... 80 Marks INTERNAL ASSESSMENTS..... 40 Marks PERIODIC TEST By administering pen paper test we assess creativity and critical thinking. 80 Marks Subject Enrichment 10 Marks With the help of subject enrichment activities we assess communication collaboration, character building and citizenship. Note Book Submission 10 Marks
Addressing Classroom Diversity	Due to various social backgrounds and multiple intelligences, the classroom might be a diverse arena. The following techniques can be used for various groups: <i>For gifted students:</i> • Encouragement for referring other resources • Presenting them with high order thinking questions

	<i>For weak students:</i> • Buddy help to be provided • Provide grade-up classes <i>For differently abled students:</i> • Ignore spelling mistakes • Call parents at regular intervals • Provide grade-up classes
Marks	The weightage would be given by CBSE
	The following questions will be asked to the students- Q.1. What is a Landfill? Q.2. Define Garbage. Q.3. What is Vermicomposting? Q.4. List two types of dustbins and their uses Q.5. What measures can you take to reduce the garbage at your home?

Unit	DAY 1 – Dealing with garbage
Class Transaction	35 mins
Pre-requisite for the course	This topic requires basic knowledge of garbage
Assessment of qualifying knowledge	Facilitator asks the students to note down what happens to the garbage heaps
Objective	<i>Students will be able to understand about composting</i>
Learning Outcomes	KNOWLEDGE- <i>Students will know and understand</i> • The reason of creating less waste • biodegradable and non-biodegradable components SKILLS- <i>Students would be able to</i> • explain the reason of creating less waste • understand biodegradable and non-biodegradable components
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Transaction would proceed in the following manner- The facilitator will start with swach bharat mission and take examples of daily garbage dealing. The facilitator will relate dealing with garbage with useful components and non-useful components. Think pair and Share-After student teacher interaction, students will read the concept of biodegradable and non-biodegradable components from the book and then think for a minute and share it with their partner for better understanding. (Critical thinking, Collaboration)

	<i>Guided practice followed by Independent Practice-</i> NCERT questions to be discussed in the classroom.
Resources	Text Book NCERT text book for Science Reference Book CBSE Exemplar
Self Study, Home Work, Assignments	Independent Practice: Students would do the questions in their H.W notebooks as mentioned in the NCERT .
Assessments	Assessment will be done on the basis of one minute oral test
Closure	Summarization by students with the help of jeopardy
Marks	The weightage would be given by CBSE

Unit	DAY 2- Vermicomposting
Class Transaction	35 mins
Pre-requisite for the course	The topic requires basic knowledge bio degradable substances
Assessment of qualifying knowledge	Facilitator will ask the students about the content of the previous period.
Objective	Students will be able to understand and explain vermicomposting
Learning Outcomes	KNOWLEDGE- <i>Students will know</i> • vermicomposting SKILLS- Students will be able to • Explain the process of vermicomposting
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Transaction would proceed in the following manner- Cubing: is an active learning strategy that asks students to consider a concept from variety of different sub-topics. The class is divided into groups and each group will study vermicomposting. They will study it under preparing compost, food for redworms, process, usefulness. (Critical thinking, communication, collaboration and character) <i>Guided practice followed by Independent Practice-</i> NCERT questions to be discussed in the classroom.
Resources	Text Book NCERT text book for Science Reference Book CBSE Exemplar
Self Study, Home Work, Assignments	Independent Practice: Students would do the questions in their H.W notebooks as mentioned in the NCERT .

Assessments	Assessment will be done on the basis of the group discussion
Closure	By the activity talking circles
Marks	The weightage would be given by CBSE

Unit	DAY -3 –Recycling of paper
Class Transaction	35 min
Pre-requisite for the course	The topic requires basic knowledge recycling of paper
Assessment of qualifying knowledge	Facilitator will ask the students - How to reuse paper?
Objective	Students will be able to understand the process and importance of recycling of paper
Learning Outcomes	KNOWLEDGE- <i>Students will know</i> • <i>recycling of paper</i> SKILLS- <i>Students will be able to</i> • <i>Explain the importance of paper reuse</i> • <i>Built character amongst themselves by discussing /communicating the need of recycling of paper.</i>
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Transaction would proceed in the following manner- After student -teacher interaction and explanation by the teacher, following strategy will be followed for concept clarity. Think pair and Share-After student teacher interaction, students will read the concept of recycling of paper from the book and then think for a minute and share it with their partner for better understanding. (Critical thinking, Collaboration) <i>Guided practice followed by Independent Practice-</i> NCERT questions to be discussed in the classroom.
Resources	Text Book NCERT text book for Science Reference Book CBSE Exemplar
Self Study, Home Work, Assignments	Independent Practice: Students would do the questions in their H.W notebooks as mentioned in the NCERT .
Assessments	Assessment will be done on the basis of discussion made.
Closure	By oral recap with activity Talking circles.
Marks	The weightage would be given by CBSE

Unit	DAY 4 -Plastic and its harmful effects
-------------	--

Class Transaction	35 min
Pre-requisite for the course	The topic requires basic knowledge of harmful effects of plastic
Assessment of qualifying knowledge	Facilitator will ask the students about the harmful- effects of using plastic
Objective	Students will be able to • appreciate less use of plastic • look for an alternative of plastic
Learning Outcomes	KNOWLEDGE- <i>Students will know</i> • the harmful effects of plastic SKILLS- <i>Students would be able to</i> • <i>Critically analyze the harmful effects of plastic</i> • <i>Built character amongst themselves by discussing /communicating the alternative of plastic</i>
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Transaction would proceed in the following manner- The students will be shown pictures of excessive use of plastic. Then this will follow- Questioning- <i>Multiple level question-</i> Teacher will prepare a list of questions about the harmful effects of using plastic and ask these questions during discussion. (Critical thinking, Communication) <i>Guided practice followed by Independent Practice-</i> NCERT questions to be discussed in the classroom.
Resources	Text Book NCERT text book for Science Reference Book CBSE Exemplar
Self Study, Home Work, Assignments	Independent Practice: Students would do the questions in their H.W notebooks as mentioned in the NCERT .
Assessments	Assessment will be done on the basis of the discussion.
Closure	Summarization with the help of students
Marks	The weightage would be given by CBSE