

CLASS-08
PHYSICAL SCIENCE
LESSON PLAN
CHAPTER: 03 – SYNTHETIC FIBRES AND PLASTICS

PERIOD NUMBER	CONCEPTS / TEACHING POINTS	PAGES IN TEXT BOOK		TEACHING PROCEDURE	TEACHING LEARNING MATERIAL	EVALUATION
		FROM	TO			
1.	Clothes from natural resources	31	32	Conversation	Chart, Bead necklace model, Paper Clips, Safety pins	What is synthetic fibre?
	Articles made up of natural and synthetic fibres			Activity		How synthetic fibres are manufactured?
	Synthetic fibres			Conversation		What is the difference between synthetic and natural fibres?
2.	Polymer	32	34	Conversation	Hair, yarn, Wool, Silk, Candle, Match box, Cotton, Rayon	What is a polymer?
	Fibres – burning test			Activity		How nylon is made?
	Nylon – How is nylon made ?			Conversation		How can you identify fibres with burning test?
3.	How strong is nylon ?	34	35	Activity	Stand, Weights, Weight hanger, Nylon fibre, Silk fibre, Wool fibre, Cotton fibre.....	Which fibre is strong?

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		FROM	TO			
4.	Rayon	35	36	Conversation	Some rayon articles or related photographs	How rayon is prepared?
	How rayon is prepared ?			Conversation		Is rayon a natural fibre?
5.	Why we combine fibres ?	36	37	Activity	Some pieces of readymade clothes, Synthetic clothes and natural clothes, Manufacture of fur coats video	Define blending?
	Acrylic			Conversation		What is fake fur?
6.	Why synthetic fibres?	37	38	Conversation	Articles made up of synthetic fibres, Laundry codes photographs	Which code is used to show not to dry clean?
	Polyesters			Conversation		Which fabrics do you prefer? Why?
	Laundry codes			Activity		What are polyesters?
7.	Identification of PET bottles	39	39	Activity	Different Plastic bottles, PET bottle codes, Resin codes photographs	What is meant by PET?
	Resin identification codes			Conversation		Resin code 07 indicates?
	Recycling codes			Conversation		Where do we find resin identification codes?
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8.	Plastics around us	39	40	Conversation	Plastic articles like chair, stool, , Photo graph of Alexander parkes	Name some plastic articles?
	Alexander parkes			Conversation		Who is the father of plastics?
9.	Types of plastics	41	41	Conversation	Chart, Some plastic bottles which are thermo plastics and thermo setting plastics	Where do find thermo plastics?
						What are thermo setting plastics?
10.	Flame test to identify thermo plastics and thermo setting plastics	41	42	Laboratory Experiment	Tongs, Spirit lamp, Samples of plastics, (Pieces from plastic bucket, tooth brush handle, comb, Piece of melamine, electric switch,)	How can we identify thermo plastics and thermo setting plastics?
11.	Thermo plastics – Thermo setting plastics	42	43	Conversation	Bell pin, Candle or Spirit lamp, Match box, Different thermo plastics and thermo setting plastics, Photographs of Leo Hendrik Baeke Land	How can we identify thermo plastics and thermo setting plastics?
	Why do we prefer plastics			Conversation		Who is the father of plastic industry?
	Hendrick bakeland (Father of plastics)			Conversation		
	Hot pin test			Activity		
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12.	Plastics – Environment	44	45	Conversation	Chart, Bio degradable and non bio degradable substances (Sample pieces)	Why do we prefer plastics?
	Bio degradable – non bio degradable plastics			Activity		What are bio degradable plastics?
			Which plastics are more harmful to environment?			
13.	Reduce – Recycle – Reuse – Recover (4R's)	45	47	Conversation	Photographs of Plastic industry and 4R's processes	What is the importance of 4R's?

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