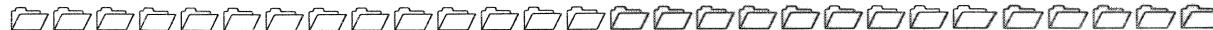




MANUFACTURED FIBERS CHART - TEACHER KEY

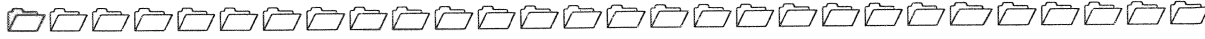
FIBER NAME	FIBER CHARACTERISTICS	CLOTHING/USES	HOW THE FIBER AFFECTS CLOTHING CHARACTERISTICS
Acetate	<ul style="list-style-type: none"> • Lustrous • Does not shrink • Lacks strength • Resists damage and mildew • Lightweight 	<ul style="list-style-type: none"> Underwear Sportswear Dresses Blouses Shirts Neckties Scarves 	<ul style="list-style-type: none"> • An all acetate garment will drape well. • Resists fading from sunlight or perspiration. • Can be damaged by acetone (nail polish remover).
FIBER ORIGIN			
Chemical		BURN TEST	CARE
		Hard, irregular black bead	<ul style="list-style-type: none"> • Outerwear needs to be dry cleaned. • Underwear washed in cold water; low dryer.
FIBER NAME			
Acrylic	<ul style="list-style-type: none"> • Lightweight • Warm • Non-absorbent • Dries quickly • Springs back into shape quickly • Resists wrinkles 	<ul style="list-style-type: none"> Sportswear Knitted garments Ski wear 	<ul style="list-style-type: none"> • An all acrylic garment will be soft, warm, and lightweight. • Resists damage from sunlight, oil, chemicals. • Tends to build up static electricity. • Tends to "pill" on surface.
FIBER ORIGIN			
Chemical		BURN TEST	CARE
		Hard, irregular black bead	<ul style="list-style-type: none"> • Wash in cold water; low dryer. • Low/medium heat on iron.



MANUFACTURED FIBERS CHART - TEACHER KEY

FIBER NAME	FIBER CHARACTERISTICS	CLOTHING/USES	HOW THE FIBER AFFECTS CLOTHING CHARACTERISTICS
Modacrylic	<ul style="list-style-type: none"> • Lightweight • Warm • Springs back into shape quickly • Non-absorbent • Resists burning • Dries quickly • Resists wrinkles 	Sportswear Sleepwear Knitted garments Fur-like garments	<ul style="list-style-type: none"> • An all modacrylic garment will not burn readily. • Garment will be soft, warm, and lightweight. • Tends to build up static electricity. • Withstands wear; durable.
FIBER ORIGIN		BURN TEST	CARE
Chemical		Hard, irregular black bead	<ul style="list-style-type: none"> • Wash in cold water; low dryer. • Low/medium heat on iron.

FIBER NAME	FIBER CHARACTERISTICS	CLOTHING/USES	HOW THE FIBER AFFECTS CLOTHING CHARACTERISTICS
Nylon	<ul style="list-style-type: none"> • Strong; durable • Does not mildew • Lustrous • Does not shrink • Non-absorbent 	Sportswear Swimwear Hosiery Underwear Raincoats Ski wear	<ul style="list-style-type: none"> • An all nylon garment will not mildew. • Absorbs oily stains and leaves a spot. • Can be damaged by strong sunlight. • Tends to build up static electricity. • Durable; withstands wear.
FIBER ORIGIN		BURN TEST	CARE
Chemical		Hard, round, gray or fawn-colored bead	<ul style="list-style-type: none"> • Wash in cold water; low dryer. • Low/medium heat on iron. • Washes easily.



MANUFACTURED FIBERS CHART - TEACHER KEY

FIBER NAME	FIBER CHARACTERISTICS	CLOTHING/ USES	HOW THE FIBER AFFECTS CLOTHING CHARACTERISTICS
Rayon	<ul style="list-style-type: none"> • Absorbs moisture • Supports mildew • Does not spring back to shape • Lacks strength • Is heat sensitive • Wrinkles easily 	Sportswear Blouses Shirts Neckties	<ul style="list-style-type: none"> • Rayon garments are comfortable in warm weather. • Burns readily. • Mildews if stored in damp place. • Not as durable as some other fibers. • May be damaged by sunlight or acid solutions.
FIBER ORIGIN Chemical		BURN TEST Grayish-black ash	CARE <ul style="list-style-type: none"> • Wash by hand in cold water; hang to dry (or dry clean). • Low heat on iron.
FIBER NAME	FIBER CHARACTERISTICS	CLOTHING/ USES	HOW THE FIBER AFFECTS CLOTHING CHARACTERISTICS
Polyester	<ul style="list-style-type: none"> • Strong; durable • Does not absorb moisture • Absorbs oil and grease; leaves stains • Holds shape; stable • Heat sensitive • Resists wrinkling 	Sportswear Suits Blouses Dresses Shirts Scarves Neckties Household items	<ul style="list-style-type: none"> • Washes easily and dries quickly. • Retains a heat-set. • Will melt if ironed at too high a temperature.
FIBER ORIGIN Chemical		BURN TEST Hard, brownish beige bead	CARE <ul style="list-style-type: none"> • Wash in cold water; low heat on dryer or hang to dry. • Low heat on iron.



MANUFACTURED FIBERS CHART - TEACHER KEY

FIBER NAME	FIBER CHARACTERISTICS	CLOTHING/USES	HOW THE FIBER AFFECTS CLOTHING CHARACTERISTICS
Spandex	<ul style="list-style-type: none"> • Withstands wear • Strong; durable • Lightweight • Heat sensitive • Stretches yet retains shape • Does not absorb moisture 	Girdles, bras Swimwear Ski wear Support hose Garments that need a lot of stretch Sportswear	<ul style="list-style-type: none"> • Stretches with body but returns to original shape when wet or dry. • Not damaged by perspiration, body oils, or chemicals. • Can be damaged by heat.
FIBER ORIGIN			
Chemical		BURN TEST	CARE
		Hard, irregular black bead	<ul style="list-style-type: none"> • Wash in cold water; low heat on dryer or hang to dry. • Low heat on iron.
FIBER NAME			
Triacetate	<ul style="list-style-type: none"> • Does not absorb moisture • Lacks strength • Springs back into shape • Resists wrinkling • Dries quickly • Not very durable 	Sportswear Dresses Garments with pleats Skirts	HOW THE FIBER AFFECTS CLOTHING CHARACTERISTICS <ul style="list-style-type: none"> • Garments of triacetate maintain a crisp finish. • Not damaged by heat. • Builds up static electricity. • Dries quickly. • Not as durable as garments from other fibers.
FIBER ORIGIN			
Chemical		BURN TEST	CARE
		Hard, irregular black bead	<ul style="list-style-type: none"> • Wash in warm/cold water; low/medium heat on dryer or hang to dry. • Low/medium heat on iron.