

YEAR 13 Batch 1 & 2 - BIOLOGY

WEEK 4 (20th Sept - 24th Sept.)

Work sent to students through Class Bio Whats App Group /Google Classroom

Topic 7.2:- Factors affecting Gene Expression

L.O – Role epigenetics leading to X- chromosome inactivation & formation of Calico cats
Compare Epistasis to Epigenetics . Role of Environment & gene expression – Coat color in Siamese cat .

Biology Students Book 2

B1- Monday – 1st & 2nd Period (Zoom) B2 - Sunday – 6th & 7th Period (Zoom)	Students able to <ul style="list-style-type: none">● Describe how X chromosome inactivation is linked to formation of Calico cats● Explain how epistasis leads to coat coloration in mice.● Role of environment in coat color of Siamese cat Resources: A2 Board works ,PowerPoint & Video link https://www.youtube.com/watch?v=Y9vXhml5FXM https://www.youtube.com/watch?v=IPs-pP2JuPY
B1 -Tuesday – 4th Period (Zoom) B2 - Monday– 3rd Period (Zoom)	Discussion of text book questions & worksheet done on Transcription factors, RNA splicing & epigenetics put in GC Students to do text book questions Pg.112 Q.1-3 & Pg.120 Q.1&2 & doubts being clarified on epigenetics Students to research on <ul style="list-style-type: none">● Stem cell therapy & Therapeutic cloning● Role of induced pluripotent stem cells

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Topic: 8.1,4 and 8.1,5 ,8,1.6 Genetics

L.O - Recap of Inheritance of two non-interacting unlinked genes. Autosomal linkage. Sex linkage on the X chromosome & Co-dominance and multiple alleles.

Biology students text book 2

B1 -Tuesday- 5th period	ZOOM SESSION
B2 - Sunday- zero period	Discussion of Worksheet questions on Genetics put in GC Students able to: Draw genetic diagrams to solve problems involving sex linkage and autosomal linkage Describe chromosome mapping. Predict the results of autosomal linkage diagrams
B1 - Thursday-1st & 2nd Period	ZOOM SESSION
B2 - Monday - 8th period	Students to do exam style questions Text Book Pg – 158 -159 doubts being clarified on concepts done in Topic 8.1
B2 - Thursday- 7th period	Students able to: Define the terms <i>locus, allele, dominant, recessive, codominant, homozygous, heterozygous, phenotype</i> and <i>genotype</i> . Analyse graphs for continuous and discontinuos variation Analyse the genetic diagrams and solve problems involving test crosses Explain how random fertilisation during sexual reproduction brings about genetic variation .