

















NOW DECIPHER THE GENE CODE:

| | FATHER | MOTHER | | YOUR FLY |
|--------------|--------|--------|---|--------------------------------------------------------------------------------------------------|
| CHROMOSOME 1 | + | + | = |  Red Eyes |
| CHROMOSOME 1 | + | W | = |  Red Eyes |
| CHROMOSOME 1 | W | + | = |  Red Eyes |
| CHROMOSOME 1 | W | W | = |  white eyes |

| | FATHER | MOTHER | | YOUR FLY |
|--------------|--------|--------|---|------------------------------------------------------------------------------------------------------|
| CHROMOSOME 2 | + | + | = |  Normal wing |
| CHROMOSOME 2 | + | vg | = |  Normal wing |
| CHROMOSOME 2 | vg | + | = |  Normal wing |
| CHROMOSOME 2 | vg | vg | = |  Short wings |

| | FATHER | MOTHER | | YOUR FLY |
|--------------|--------|--------|---|------------------------------------------------------------------------------------------------------------|
| CHROMOSOME 3 | + | + | = |  Normal body colour |
| CHROMOSOME 3 | + | e | = |  Normal body colour |
| CHROMOSOME 3 | e | + | = |  Normal body colour |
| CHROMOSOME 3 | e | e | = |  ebony body colour |

| | FATHER | MOTHER | | YOUR FLY |
|--------------|--------|--------|---|-----------------------------------------------------------------------------------------------------------|
| CHROMOSOME 4 | + | + | = |  Normal sized eyes |
| CHROMOSOME 4 | + | ey | = |  Normal sized eyes |
| CHROMOSOME 4 | ey | + | = |  Normal sized eyes |
| CHROMOSOME 4 | ey | ey | = |  small eyes |



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