

Denver System Template

Karyotype Sheet # _____

How many chromosomes are present? _____

Group A: _____
 1 2 3

Group B: _____
 4 5

Group C: _____
 6 7 8 9 10 11 12

Group D: _____
 13 14 15

Group E: _____
 16 17 18

Group F: _____
 19 20

Group G: _____
 21 22

Sex Chromosomes _____
 X X or Y

Question—What is the genetic composition of the individual whose karyotype is shown above on the Denver System Worksheet (see Table 2)?

Magnetic Karyotypes Worksheet

Discussion Questions

1. What is the genetic composition of a normal female?
2. Why must chromosomes be stained before they are organized according to the Denver System?
3. After a chromosome smear has been stained, what are the next steps in organizing chromosomes according to the Denver System?
4. What chromosomal abnormalities might be disguised phenotypically?
5. Individuals with Down Syndrome (Trisomy 21) may experience different degrees of health symptoms. Explain why this may occur.
6. Miscarriages may occur for different reasons. Explain why an apparently normal female with a Robertsonian Translocation may experience frequent miscarriages. Explain in terms of genotype and phenotype.