

Name_

Karyotyping Worksheet

Group A: Long chromosomes; centromere near center.	1		2	3		
Group B: Long chromosomes; centromere not in center. Group C:Medium chromo	4 soomes; centromeres sli	ghtly off center.	5			
6	7	8	9	10	11	12
Group D:Medium chromosomes; centromeres near one end of chromo- some.	13		14	15	_	
Group E: Short chromosomes; centromeres slightly off center.	16	17	18	— Group F: Short chromosomes; centromeres near center.	19	20
Group G:Very short chromosomes; centromere near end.	21		22	Sex Chromosomes		
Smear # How many chromosomes does this individual possess?						
What is the sex of th	ne individual?					
Describe any chrom	osome abnormalt	ies you have o	discovered.			

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Chromosome Smear #1



- 1. Use scissors to cut out the individual chromosomes.
- 2. Match homologous pairs of chromosomes and place them on the worksheet in their appropriate space. Use the line provided to line up the centromere region on each chromosome. Use the shape, size, banding patterns, and group descriptions to arrange the karyotype.
- 3. When your chromosomes have been classified and you are confident of their identity, tape them to your worksheet and answer the questions on the worksheet.

Name

Chromosome Smear #2



- 1. Use scissors to cut out the individual chromosomes.
- 2. Match homologous pairs of chromosomes and place them on the worksheet in their appropriate space. Use the line provided to line up the centromere region on each chromosome. Use the shape, size, banding patterns, and group descriptions to arrange the karyotype.
- 3. When your chromosomes have been classified and you are confident of their identity, tape them to your worksheet and answer the questions on the worksheet.

Chromosome Smear #3



- 1. Use scissors to cut out the individual chromosomes.
- 2. Match homologous pairs of chromosomes and place them on the worksheet in their appropriate space. Use the line provided to line up the centromere region on each chromosome. Use the shape, size, banding patterns, and group descriptions to arrange the karyotype.
- 3. When your chromosomes have been classified and you are confident of their identity, tape them to your worksheet and answer the questions on the worksheet.

Chromosome Smear #4



- 1. Use scissors to cut out the individual chromosomes.
- 2. Match homologous pairs of chromosomes and place them on the worksheet in their appropriate space. Use the line provided to line up the centromere region on each chromosome. Use the shape, size, banding patterns, and group descriptions to arrange the karyotype.
- 3. When your chromosomes have been classified and you are confident of their identity, tape them to your worksheet and answer the questions on the worksheet.

Name

Chromosome Smear #5



Instructions

6

- 1. Use scissors to cut out the individual chromosomes.
- 2. Match homologous pairs of chromosomes and place them on the worksheet in their appropriate space. Use the line provided to line up the centromere region on each chromosome. Use the shape, size, banding patterns, and group descriptions to arrange the karyotype.
- 3. When your chromosomes have been classified and you are confident of their identity, tape them to your worksheet and answer the questions on the worksheet.

Name

Chromosome Smear #6



- 1. Use scissors to cut out the individual chromosomes.
- 2. Match homologous pairs of chromosomes and place them on the worksheet in their appropriate space. Use the line provided to line up the centromere region on each chromosome. Use the shape, size, banding patterns, and group descriptions to arrange the karyotype.
- 3. When your chromosomes have been classified and you are confident of their identity, tape them to your worksheet and answer the questions on the worksheet.