

FAMILY PORTRAITS

K-4TH GRADE

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INTRODUCTION

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Welcome to Family Portraits Interactive Workbook!

Through this workbook, you will learn more about your family and facial features. As a young scientist, you will also learn about how you and your parents look alike. From your hair to your tongue, you look like you do because of how your parents look.

The Family Portrait Interactive Workbook will allow you to make a picture of your mom, your dad, and yourself in a fun and simple way. Be sure to look at all of your face drawing options at the bottom of each page before you begin.

At the end of this workbook, you will know why you look the way you do.

Enjoy!

BRIEF BACKGROUND

Many physical characteristics, including facial features, are a result of heredity—the process of passing on physical traits from one generation to the next. For example, you may notice that you look a bit like your mom or your dad. In this exercise, you will take a look at four facial characteristics that you have and compare them with your parents. You will examine your earlobe, your nose shape, your hair, and your tongue to see if you have similarities with those of your parents.

Several things affect how the different parts of your face are formed. A lot has to do with the genes that you inherit from your parents. Genes are found in the cells of your body. They contain instructions that control how your body develops. Genes are made up of DNA, which is often called the “blueprint” of all living things. Think of DNA as the letters and words that make up the instructions found in genes.

Your genes are a combination of your mother’s and father’s genes. You may wonder why you look like your dad in some ways, and like your mom in others. This is because genes can behave differently. You inherit a pair of each gene—one from your mom and one from your dad. “Dominant” genes are likely to produce a particular characteristic, while “Recessive” genes might not. Also, some genes are inherited in a co-dominant way, where your features are a mix, or in between, your parents’ features. Some things in the environment may also affect how your features develop.

This activity just introduces you to some of the inherited traits you can easily observe. Have fun discovering the features you share with your parents—and take it further by comparing your features with those of your brothers and sisters!

FACIAL FEATURES

K-4TH GRADE

GUIDE TO FACIAL FEATURES

EAR LOBES



HAIR



TONGUE ROLLING



INSTRUCTIONS

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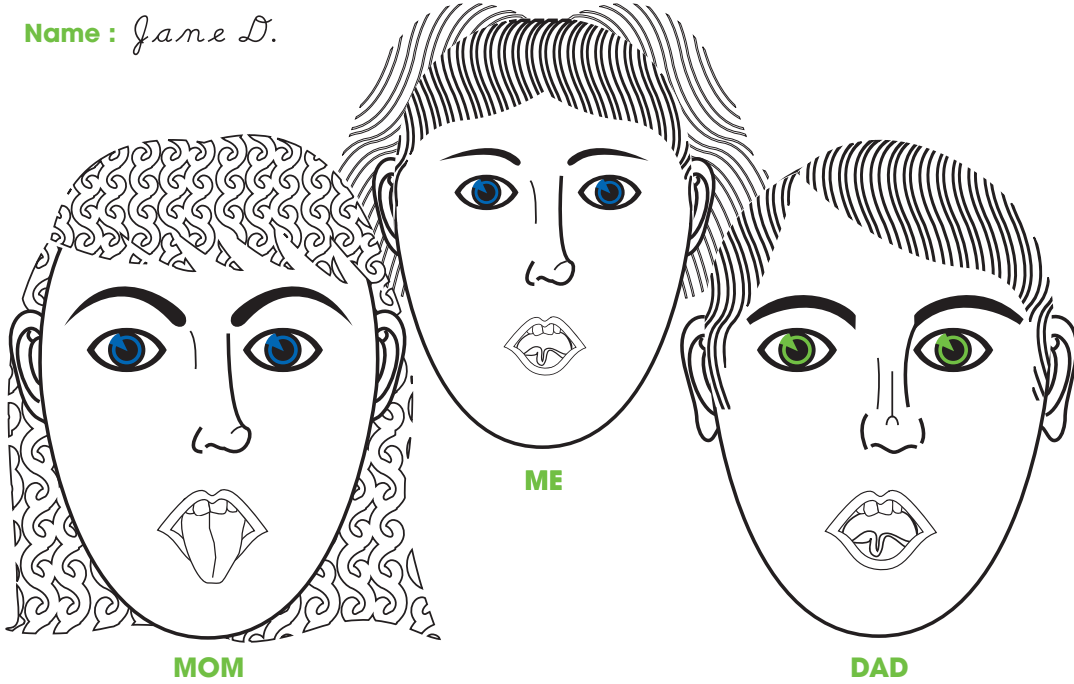
WORKSHEET INSTRUCTIONS

On the next page, you will see a link, "click here for printable version." Print the worksheet and follow the instructions written there. An example of a completed worksheet can be found ____.

EXAMPLE

K-4TH GRADE

Name : *Jane D.*



- 1) Place a check mark for one of each part of the head that belongs to each family member and yourself.
- 2) Draw the parts of the head on the faces they belong to and color the eyes with the color each person has.
- 3) What do you have that one of your parents have too? This is because of inheritance!

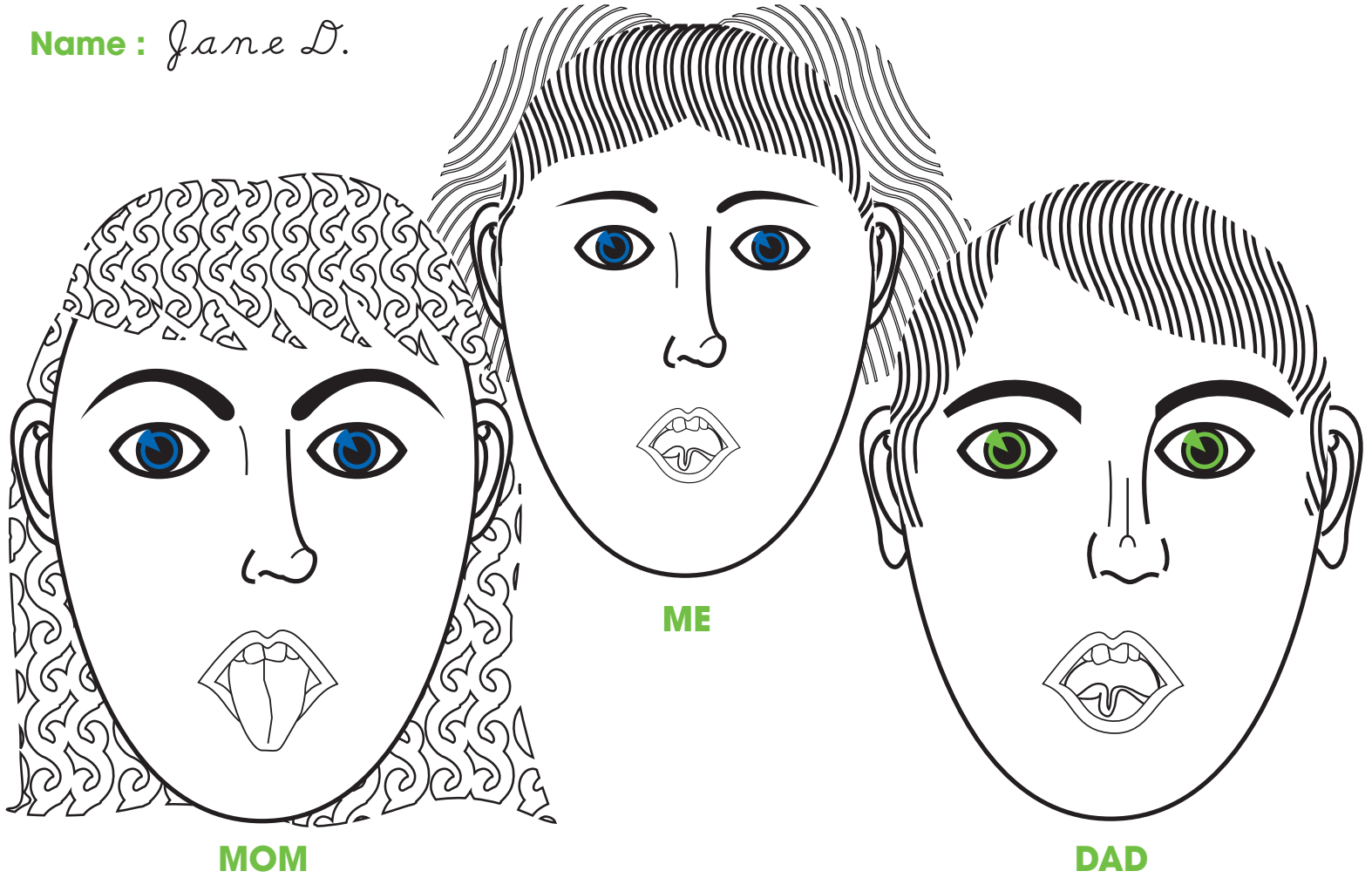
| | EARS | | NOSE | | | | | | HAIR | | | ROLLED TONGUE | | |
|-----|------|---|------|---|--|--|---|--|------|---|--|---------------|---|--|
| | | | | | | | | | | | | | | |
| MOM | ✓ | | | ✓ | | | | | ✓ | | | | ✓ | |
| DAD | | ✓ | | | | | ✓ | | | ✓ | | | ✓ | |
| ME | ✓ | | | ✓ | | | | | | ✓ | | | ✓ | |

EXIT

K-4TH GRADE

Thank you! We hope that you have found this to be a helpful tool. Let us know what you think at : contact@dnacenter.com

Name : Jane D.



- 1) Place a check mark for one of each part of the head that belongs to each family member and yourself.
- 2) Draw the parts of the head on the faces they belong to and color the eyes with the color each person has.
- 3) What do you have that one of your parents have too? This is because of inheritance!

| | EARS | | NOSE | | | | | | HAIR | | | ROLLED TONGUE | | |
|-----|------|---|------|--|---|--|---|--|------|---|--|---------------|---|---|
| | | | | | | | | | | | | | | |
| MOM | ✓ | | | | ✓ | | | | ✓ | | | | | ✓ |
| DAD | | ✓ | | | | | ✓ | | | ✓ | | | ✓ | |
| ME | ✓ | | | | ✓ | | | | | ✓ | | | ✓ | |