

DNA Structure Maze Worksheet

Name _____

Date _____

DNA Structure Maze

Directions: Read the question in the START block. Select the answer to the question from the choices. Follow that path to your next question. Complete the maze by following the correct path from START to FINISH.

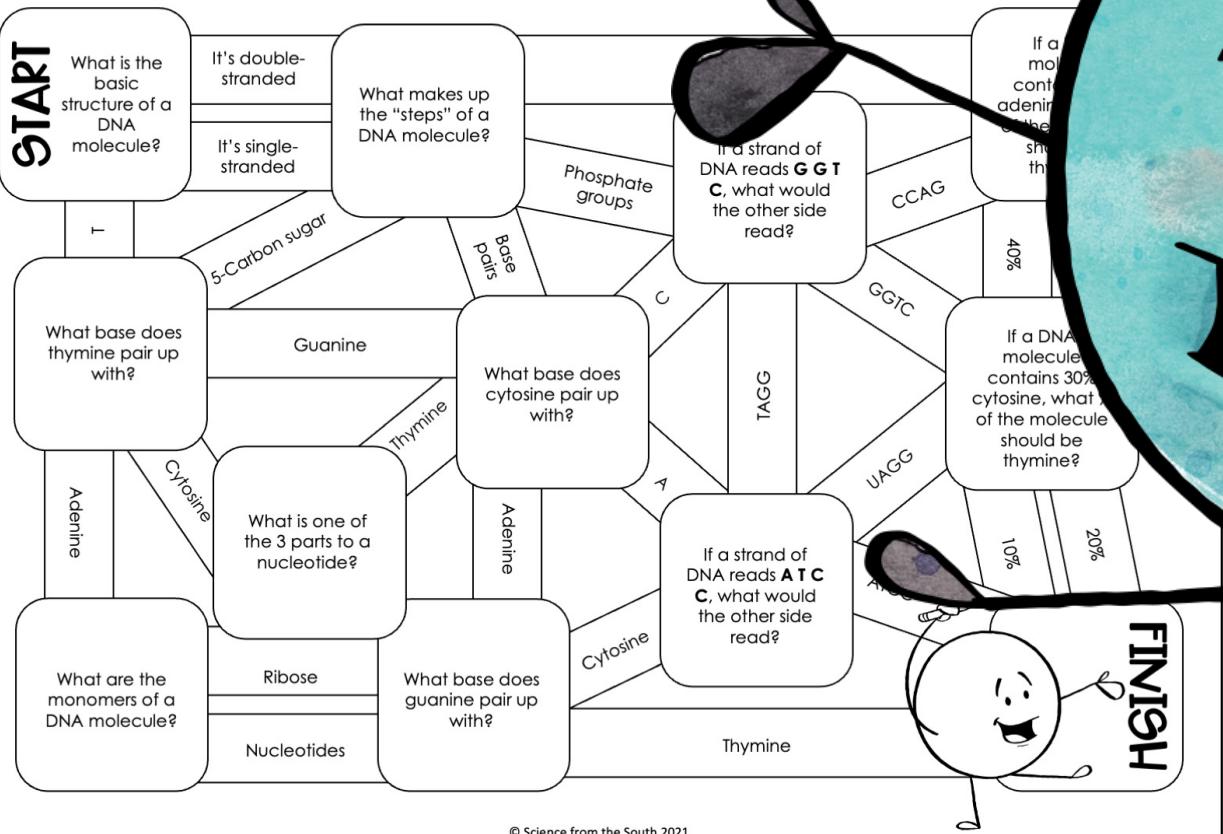


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DNA Structure Maze

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START

What is the basic structure of a DNA molecule?

It's double-stranded

It's single-stranded

What makes up the "steps" of a DNA molecule?

Phosphate groups

10%

If a strand of DNA reads **G G T C**, what would the other side read?

CCAG

40%

If a DNA molecule contains 40% adenine, what % of the molecule should be thymine?

What base does thymine pair up with?

Guanine

What base does cytosine pair up with?

TAC

If a DNA molecule contains 30% cytosine, what % of the molecule should be thymine?

UAGG

20%

Adenine

Cytosine

Thymine

Adenine

What is one of the 3 parts to a nucleotide?

Cytosine

If a strand of DNA reads **A T C C**, what would the other side read?

ATCC

10%

What are the monomers of a DNA molecule?

Nucleotides

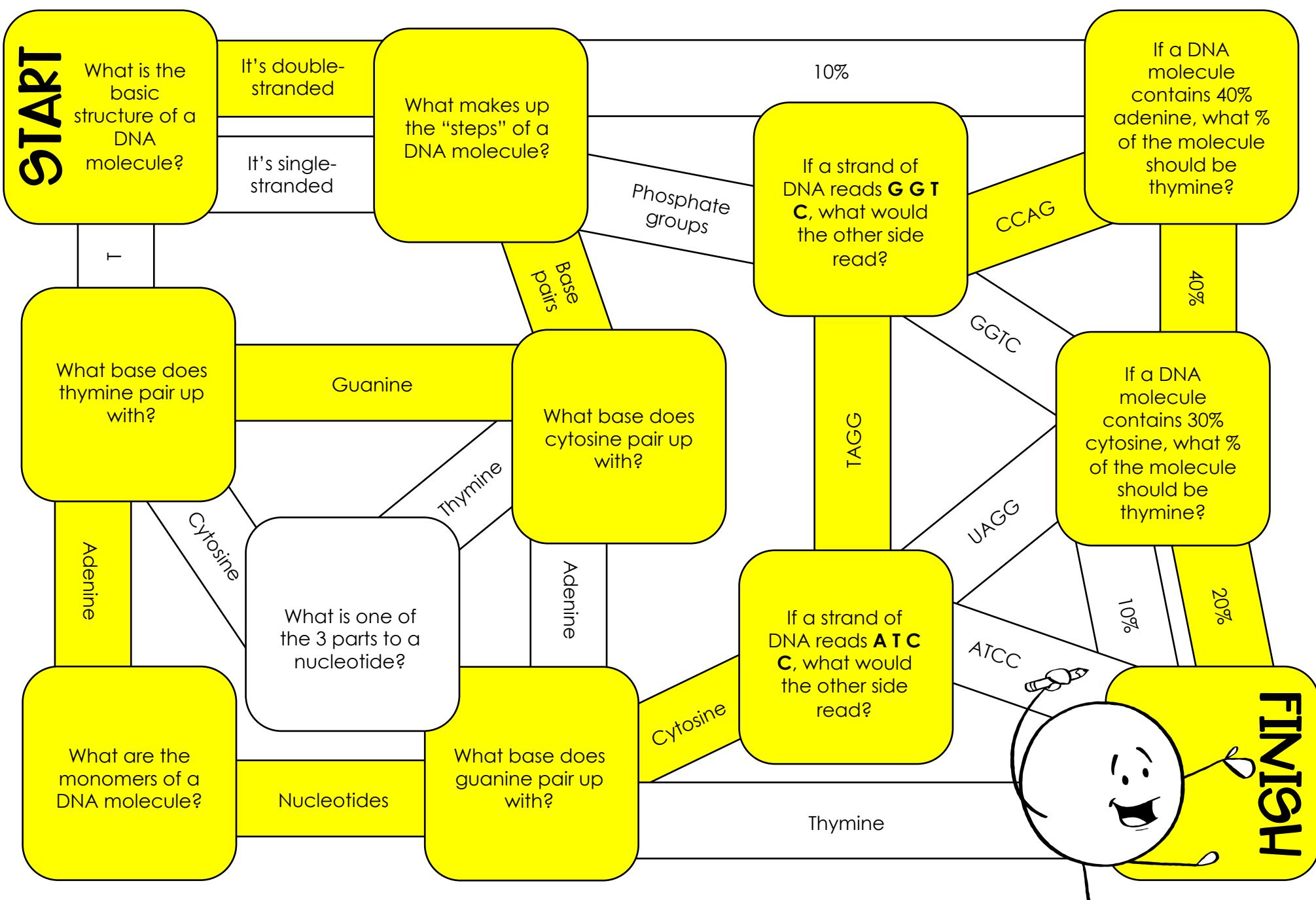
What base does guanine pair up with?

Thymine

FINISH

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Cytosine

Adenine

Guanine

What base does cytosine pair up with?

Thymine

C

TACG

GGTC

If a DNA molecule contains 30% cytosine, what % of the molecule should be thymine?

UAGG

20%

If a strand of DNA reads **A T C C**, what would the other side read?

ATCC

10%

What are the monomers of a DNA molecule?

Ribose

Nucleotides

What base does guanine pair up with?

Adenine

Cytosine

Thymine

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CCAG

TAGC

GGTC

20%

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Guanine

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Cytosine

Adenine

What are the monomers of a DNA molecule?

What is one of the 3 parts to a nucleotide?

Ribose

Nucleotides

5-Carbon sugar

Base pairs

Guanine

Thymine

What base does cytosine pair up with?

Adenine

Cytosine

What base does guanine pair up with?

Thymine

Phosphate groups

10%

If a strand of DNA reads **G G T C**, what would the other side read?

C

T A G C

CCAG

GGTC

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40%

60%

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T

G

What base does thymine pair up with?

5-Carbon sugar

Thymine

Uracil

Guanine

Adenine

Phosphate group

What is one of the 3 parts to a nucleotide?

What are the monomers of a DNA molecule?

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T A G C

T U C C

CCAG

GGTC

UAGG

ATCC

40%

60%

If a DNA molecule contains 30% cytosine, what % of the molecule should be thymine?

10%

20%

FINISH

Hook into the Lesson

Challenge your students with completing the maze correctly on the first attempt. You may give them hints such as "all but one of the questions will be answered" or allow the students use of their notes. Hook them even more by offering a prize or reward for completion or make it a challenge to complete the activity first.

Bump Up Engagement

Bump up engagement by making the activity a race to complete activity. Partner students up and allow the groups to compete against each other or provide students the opportunity to race against a timer. Have access to a poster machine? Blow up a copy of the maze, laminate, and use as a part of a station activity.

Provide Feedback

Your 100% satisfaction is valued.

Feedback and ratings for product improvement are greatly appreciated. How can I make the resource better?

If you are dissatisfied with the resource, please contact me at sciencefromthesouth@gmail.com

My best efforts will be made to modify the product to fit your needs.

Use the Resource

Use the resource for practice, review, assessment, or evaluation of student understanding of the basic structure of DNA. Simply print the resource and allow the students to complete in class or for homework. Quickly assess for accuracy by using the answer key or allow the students to self-assess as a part of a station activity. If they complete it correctly, you can even use it for bonus points towards an assessment.

Edit

Do you need to change the wording or even some of the examples? Send us an email at sciencefromthesouth@gmail.com or share your email with us and a note of the changes you need by using the Product Q & A feature on the [resource page](#). We can make the change for you or send an editable version of the student pages.

Connect

Capture your students using the resource? Share it [@iheartsciencefromthesouth](#) for a prize!



Differentiate

Multiple versions of the resource are provided for differentiation based on ability (simplified, intermediate, and advanced). Choose which version works best for you and each of your individual students. Pair students up with a partner if they need additional support or provide the use of hint cards.



Thank you! We hope you ❤️ your Science from the South purchase.
Heather

Use this differentiated activity for formative or summative assessment of student understanding of the concepts of the basic structure of DNA.

HOW TO
GUIDE

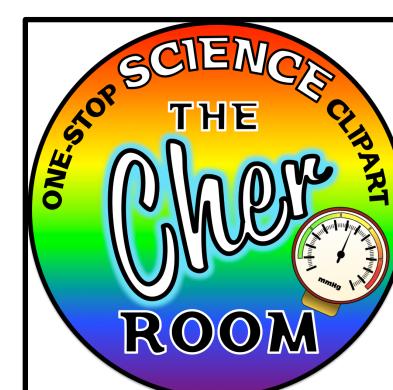
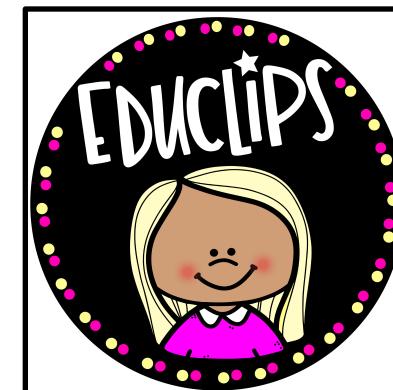
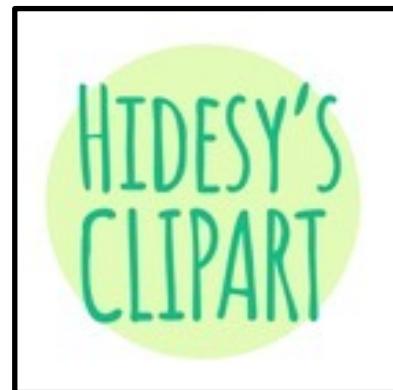
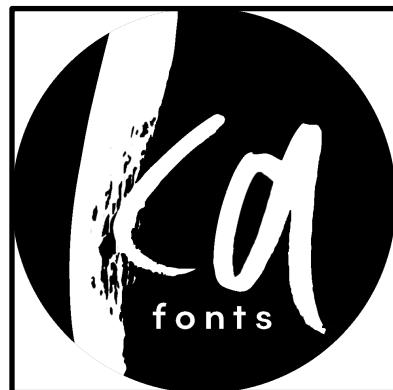
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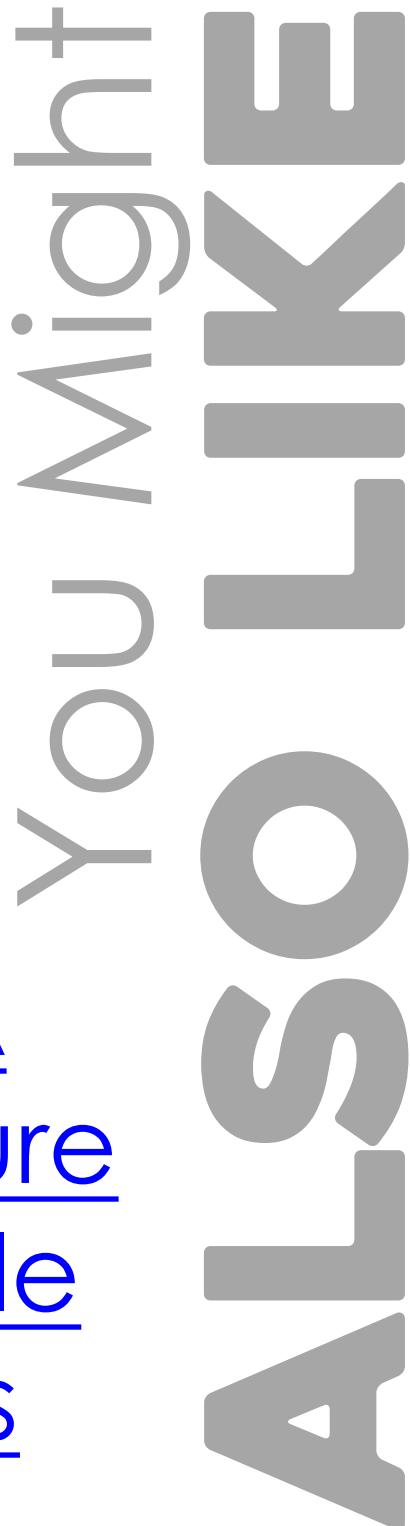
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