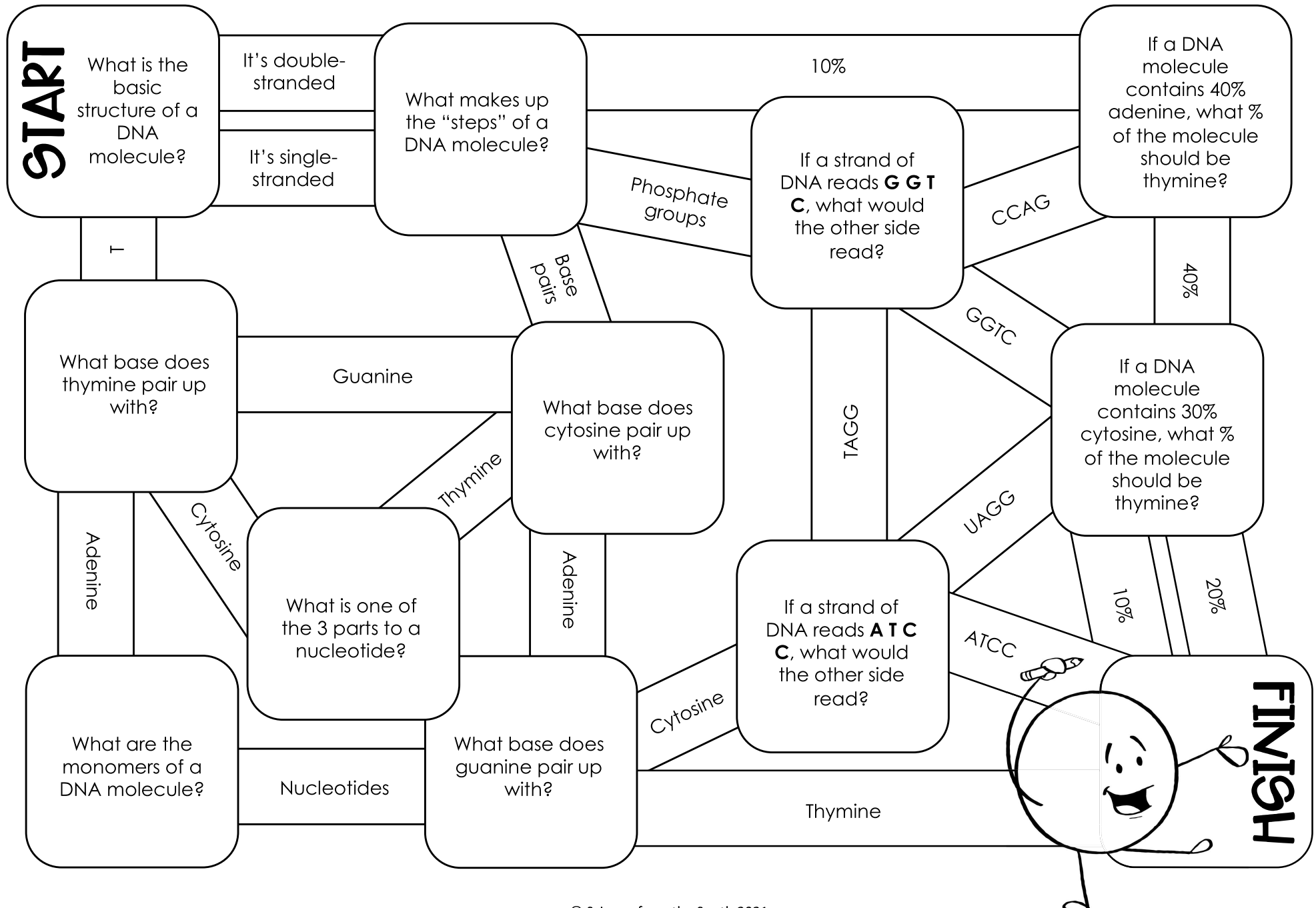Name_____   Date_____

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.

START

What is the basic structure of a DNA molecule?

It's double-stranded

It's single-stranded

T

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

10%

Phosphate groups

Base pairs

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

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

CCAG

40%

GGTC

What base does thymine pair up with?

Guanine

What base does cytosine pair up with?

Thymine

Cytosine

Adenine

Adenine

TAGG

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

UAGG

What is one of the 3 parts to a nucleotide?

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

10%

20%

What are the monomers of a DNA molecule?

Nucleotides

What base does guanine pair up with?

Cytosine

ATCC

Thymine
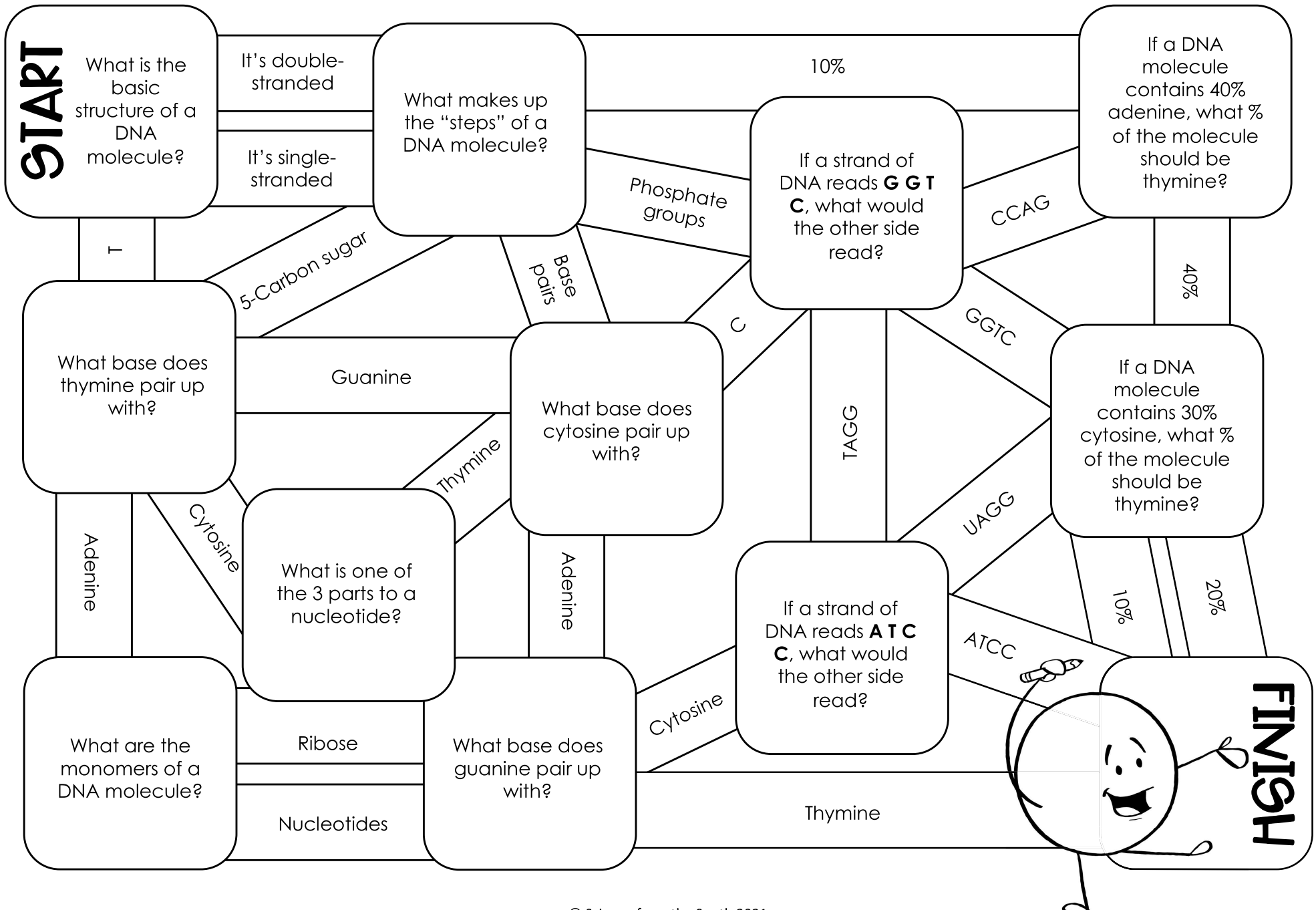
FINISH

Name_____   Date_____

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10%

Phosphate groups

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

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

CCAG

T

5-Carbon sugar

Base pairs

40%

What base does thymine pair up with?

Guanine

C

GGTC

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

Thymine

What base does cytosine pair up with?

TAGG

UAGG

Adenine

Cytosine

What is one of the 3 parts to a nucleotide?

Adenine

10%

20%

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

ATCC

What are the monomers of a DNA molecule?

Ribose

What base does guanine pair up with?

Cytosine

Nucleotides

Thymine

FINISH

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DNA Structure Maze

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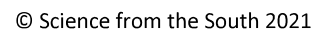
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CCAG

T

5-Carbon sugar

Base pairs

C

GGTC

40%

60%

What base does thymine pair up with?

Guanine

What base does cytosine pair up with?

TAGG

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

Thymine

A

Adenine

Cytosine

What is one of the 3 parts to a nucleotide?

Adenine

UAGG

10%

20%

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

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Cytosine

FINISH

Nucleotides

Thymine

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It's single-stranded

T

G

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Phosphate groups

5-Carbon sugar

Base pairs

10%

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What base does thymine pair up with?

Thymine

Uracil

Guanine

C

What base does cytosine pair up with?

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