

## Worksheet 1: Team A

ATGTTAGGTAGTAAAGATGCT	MetLeuGlySerLysAspAla
ATGCATGAAGCTATTTATGAT	MetHisGluAlaIleTyrAsp
ATGGGTAGTGATGAAGCTTAT	MetGlySerAspGluAlaTyr

Observations and notes:

Supporting material for:

Domènech-Casal J (2016) Cracking the genetic code: replicating a scientific discovery. *Science in School* **36**: 47-51.

[www.scienceinschool.org/2016/issue36/code](http://www.scienceinschool.org/2016/issue36/code)

## Worksheet 1: Team B

ATGGGTAGTGATGAAGCTTAT	MetGlySerAspGluAlaTyr
ATGAGTAAAGATGAAGCTATT	MetSerLysAspGluAlaIle
ATGGGTAGTATGAAACATATT	MetGlySerMetLysHisIle

Observations and notes:

Supporting material for:

Domènech-Casal J (2016) Cracking the genetic code: replicating a scientific discovery. *Science in School* **36**: 47-51.

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## Worksheet 1: Team C

ATGGGTAGTATGAAACATATT	MetGlySerMetLysHisIle
ATGGTTTGTAGTAAATTACAT	MetValCysSerLysLeuHis
ATGCATGAAATTGTTTGTGGT	MetHisGluIleValCysGly

Observations and notes:

Supporting material for:

Domènech-Casal J (2016) Cracking the genetic code: replicating a scientific discovery. *Science in School* **36**: 47-51.

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## Worksheet 1: Team D

ATGCATGAAATTGTTTGTGGT	MetHisGluIleValCysGly
ATGCATGCTGATGTTTGTTTA	MetHisAlaAspValCysLeu
ATGAAAATGGATGGTGAAGCT	MetLysMetAspGlyGluAla

Observations and notes:

Supporting material for:

Domènech-Casal J (2016) Cracking the genetic code: replicating a scientific discovery. *Science in School* **36**: 47-51.

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## Worksheet 1: Team E

ATGAAAATGGATGGTGAAGCT	MetLysMetAspGlyGluAla
ATGGAAGCTATTTATTGTTA	MetGluAlaIleTyrCysLeu
ATGTTAGGTAGTAAAGATGCT	MetLeuGlySerLysAspAla

Observations and notes:

Supporting material for:

Domènech-Casal J (2016) Cracking the genetic code: replicating a scientific discovery. *Science in School* **36**: 47-51.

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## Worksheet 2: Team A

ATGGTTTCGTACACTGCGTCA	MetValSerTyrThrAlaSer
ATGCCGTACACATGTGTCACA	MetProTyrThrCysValThr
ATGACGAGTGCGTTGTGCGAT	MetThrSerAlaLeuCysAsp

Observations and notes:

Supporting material for:

Domènech-Casal J (2016) Cracking the genetic code: replicating a scientific discovery. *Science in School* **36**: 47-51.

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## Worksheet 2: Team B

ATGACGAGTGCGTTGTGCGAT	MetThrSerAlaLeuCysAsp
ATGGGACTCGTGTCATCACTG	MetGlyLeuValSerSerLeu
ATGGTTAACAGACTGTGCTCG	MetValAsnArgLeuCysSer

Observations and notes:

Supporting material for:

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## Worksheet 2: Team C

ATGGTTAACAGACTGTGCTCG	MetValAsnArgLeuCysSer
ATGAAATTGCATTTGCTGCAA	MetLysLeuHisLeuLeuGln
ATGAAAGCTGAGGCTGTAAA	MetLysAlaGluAlaValLys

Observations and notes:

Supporting material for:

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## Worksheet 2: Team D

ATGAAAGCTGAGGCTGTAAA	MetLysAlaGluAlaValLys
ATGTGCGTGTCACGCGCGATC	MetCysValSerArgAlaIle
ATGAACCTCTGCCAGGCTGAT	MetAsnLeuCysGlnAlaAsp

Observations and notes:

Supporting material for:

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## Worksheet 2: Team E

ATGAACCTCTGCCAGGCTGAT	MetAsnLeuCysGlnAlaAsp
ATGTGCCAATCGTCGTACACCA	MetCysGlnSerSerTyrThr
ATGGTTTCGTACTGCGTCA	MetValSerTyrThrAlaSer

Observations and notes:

Supporting material for:

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## Worksheets 3 and 4: Team A

TGTCATGCATGCGTCATCACTGAC	*
TGCGTGACTATGGACACAGTCGT	MetAspThrVal

ATGTGTCGATGACTGATCATG	MetCysArg
ATGTGCGTACACATTTGAGTC	MetCysValHisIle
ATGCTGTACACATGATGCACAGT	MetLeuTyrThr

Observations and notes:

Supporting material for:

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## Worksheets 3 and 4: Team B

TGCGTGACTATGGACACAGTCGT	MetAspThrVal
TGTCGATCTATGCGATGCATG	MetArgCysMet

ATGCTGTACACATGATGCACAGT	MetLeuTyrThr
ATGTGCGTACACAGTTAATCG	MetCysValHisSer
ATGGCACATGACGATTAACA	MetAlaHisAspAsp

Observations and notes:

Supporting material for:

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## Worksheets 3 and 4: Team C

TGTCGATCTATGCGATGCATG	MetArgCysMet
TTAACTGTATGCATGGTACTA	MetValLeu

ATGGCACATGACGATTAAACA	MetAlaHisAspAsp
ATGATGACGATTAAATAACAC	MetMetThrIleLys
ATGTGCGCATGACTGACTAGAT	MetCysAla

Observations and notes:

Supporting material for:

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## Worksheets 3 and 4: Team D

TTAACTGTATGCATGGTACTA	MetValLeu
CTAGTCATGTTCGATGCATGCA	MetSerMetHisAla

ATGTGCGCATGACTGACTAGAT	MetCysAla
ATGTATTGACTGACTAGATATGC	MetTyr
ATGTGTCGATGACTGATCATG	MetCysArg

Observations and notes:

Supporting material for:

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## Worksheets 3 and 4: Team E

CTAGTCATGTCGATGCATGCA	MetSerMetHisAla
TGTCTAATGTTTACCGGATTT	MetPheThrGlyPhe

ATGCTGTACACATGATGCACAGT	MetLeuTyrThr
ATGATGACGATTAAATAACAC	MetMetThrIleLys
ATGTGCGCATGACTGACTAGAT	MetCysAla

Observations and notes:

Supporting material for:

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## Worksheet 5: Team A

### Design your mutations

Original sequence	Mutated sequence	Expected result	Confirmed?

Observations and notes:

Supporting material for:

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## Worksheet 5: Team B

### Design your mutations

Original sequence	Mutated sequence	Expected result	Confirmed?

Observations and notes:

Supporting material for:

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## Worksheet 5: Team C

### Design your mutations

Original sequence	Mutated sequence	Expected result	Confirmed?

Observations and notes:

Supporting material for:

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## Worksheet 5: Team D

### Design your mutations

Original sequence	Mutated sequence	Expected result	Confirmed?

Observations and notes:

Supporting material for:

Domènech-Casal J (2016) Cracking the genetic code: replicating a scientific discovery. *Science in School* **36**: 47-51.

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## Worksheet 5: Team E

### Design your mutations

Original sequence	Mutated sequence	Expected result	Confirmed?

Observations and notes:

Supporting material for:

Domènech-Casal J (2016) Cracking the genetic code: replicating a scientific discovery. *Science in School* **36**: 47-51.

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