



Sampling of our Code Crackers Activity for Plant & Animal Cells

DECIPHER CODE CARD
Questions 1-8

⊕	⊙	⊛	⊜	⊝	⊞	⊟	⊠	⊡	⊢
*	V	U	T	S	R	Q	P	?	
⚡	⚔	⚖	⚗	⚘	⚙	⚚	⚛	⚜	⚝
M	L	#	J	H	G	K	N	W	

Questions 9-11

A =

B =

C =

D =

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DECIPHER CODE CARD
Questions 12-17

	A	B	C	D	E	F
Q12						
Q13						
Q14						
Q15						
Q16						
Q17						

= G
 = H
 = J
 = K

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Question 1 AMAZING CELLS

As a plant cell I am rigid due to my cell wall causing me to have a defined shape. What shape am I most commonly considered to be?

☞ triangle

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Question 4 AMAZING CELLS

I am the type of cell division that helps create new skins, muscles, hair, tissue, etc. I am how somatic cells reproduce. I am not involved with division of sex cells.

meiosis
 peroxisomes
 mitosis
 lysosomes

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Question 12 AMAZING CELLS

I am the brain of the cell. I control and direct all the cell's activities. I can be only be found in eukaryotic cells. I am the largest organelle and sit in the cytoplasm. Who am I?

A nucleolus
 B chromatin
 C nucleus
 D mitochondria

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24 Task Cards

DECIPHER CODE CARD
Questions 18-21

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4 Decipher Code Cards

DECIPHER CODE CARD
Questions 22-24

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Question 13 AMAZING CELLS

I am like a delivery service inside a eukaryotic cell. I am comprised of folded stacks of membrane that make me look like a stack of pancakes. I am involved with packaging, intercellular transport, and secretion. Who am I?

A lysosomes
 B mitochondria
 C endoplasmic reticulum
 D golgi apparatus

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Question 20 AMAZING CELLS

We are the protein of a cell. There are many of us in a cell. When I am not loose in the cytoplasm, I can be found attach to the endoplasmic reticulum making it rough. Who are we?

B ribosomes

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Question 22 AMAZING CELLS

I am the term used to describe organized specialized structures within plant and animal cells.

E tissues
 F nucleus
 G mitosis
 H organelle

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Amazing Cells

PREVIEW from Activities to Teach

Sampling of our Code Crackers Activity for Plant & Animal Cells

Code Crackers Student Instruction Card and Answer Sheet. The card includes a 'Can You Crack the Code?' introduction, instructions for the activity, and a 24-question answer sheet with a grid for recording answers.

Can You Crack the Code?
Your detective team has been called to RTY Junior High to help rescue a class of students. Their crazy science teacher has locked them in a door. Your mission is to use your Animal and Plant knowledge to crack the code using the question and decoder code. To unlock the door, you must verify the code with your teacher. Can you crack the code? You only have a limited time to crack the code.

AMAZING CELLS INSTRUCTIONS

1. Answer the questions on your 24 task cards.
2. Record the answers in the corresponding numbered box on the detective code cracker sheet.
3. Use decoder code card to translate your answers to the code per question.

Cracker codes as instructed:
paper or Cracker Verification Website.
/a2t-cells

Student Instruction Card and Answer Sheets



- Code Crackers - This card belongs to SET 1 Task Card 1 of 24
- Code Crackers 6 Mini Mysteries - This card belongs to SET 1 Task Card 2 of 24
- Code Crackers 6 Mini Mysteries - This card belongs to SET 1 Task Card 3 of 24
- Code Crackers 6 Mini Mysteries - This card belongs to SET 1 Task Card 4 of 24
- Code Crackers 6 Mini Mysteries - This card belongs to SET 1 Task Card 5 of 24
- Code Crackers 6 Mini Mysteries - This card belongs to SET 1 Task Card 6 of 24
- Code Crackers 6 Mini Mysteries - This card belongs to SET 1 Task Card 7 of 24
- Code Crackers 6 Mini Mysteries - This card belongs to SET 1 Task Card 8 of 24
- Code Crackers 6 Mini Mysteries - This card belongs to SET 1 Task Card 9 of 24
- Code Crackers 6 Mini Mysteries - This card belongs to SET 1 Task Card 10 of 24
- Code Crackers 6 Mini Mysteries - This card belongs to SET 1 Task Card 11 of 24
- Code Crackers 6 Mini Mysteries - This card belongs to SET 1 Task Card 12 of 24
- Code Crackers 6 Mini Mysteries - This card belongs to SET 1 Task Card 13 of 24
- Code Crackers 6 Mini Mysteries - This card belongs to SET 1 Task Card 14 of 24
- Code Crackers 6 Mini Mysteries - This card belongs to SET 1 Task Card 15 of 24
- Code Crackers 6 Mini Mysteries - This card belongs to SET 1 Task Card 16 of 24
- Code Crackers 6 Mini Mysteries - This card belongs to SET 1 Task Card 17 of 24

plus 19 pages of ready to print organizational labels for cards & envelopes

Teacher Guide & Prep Notes

Objective of Activity:

- Students will work in "teams" or "cells partners" to answer questions and record their answers.
- Using the decoder code card, students complete additional tasks to transfer their question answers into a 24 character code.
- Student "verify" their code by either "reporting" the code to their teacher (and/or entering the code into the Code Cracker Verification Website (http://a2t-cells.com/))
- If using the technology integration option, students will get a "verification code" to submit to you.
- The activity requires students to use teamwork, objective reasoning, reading for context clues, and critical thinking skills.

Each "KIT" needs:

- 1 "Decoder Instruction Card"
- Full set of 24 task cards
- Decoder Code Card
- Technology device (phone, tablet, laptop) with access to Internet, if wanting students to enter their "cracking code" (optional)
- Card Numbering Labels for organization. Can print on Avery labels 5164 (optional)
- Labels for envelopes (or report card file envelopes work best) to store evidence cards)
- Sheet of Avery 5260 Labels for kit organization (optional)

Suber Prep Printing Cards for Kits:

- Print & complete set of 24 cards per KIT
- Print instruction cards (2 per kit with a printing per page)
- Print the 4-page Decoder Code Card for each kit. Recommended printing 2 labeled or 4 blank cards to hold these decoder code cards in envelopes with cards.
- Recommended printing ALL student cards on card stock and laminating for durability.
- REORDER the kits' cards on back before laminating to help sort kits if they get mixed up and shipped. You can specify that if correct kit.
- There are 26 pages of ready to print Avery 5260 labels (26 to a page) to go back of each kit's cards.
- If you don't have labels, simply print these pages on paper, cut out, and

Includes an answer key with a grid and a maze activity.

Teacher Instructions and Answer Sheets



Website to Verify Codes (optional)

