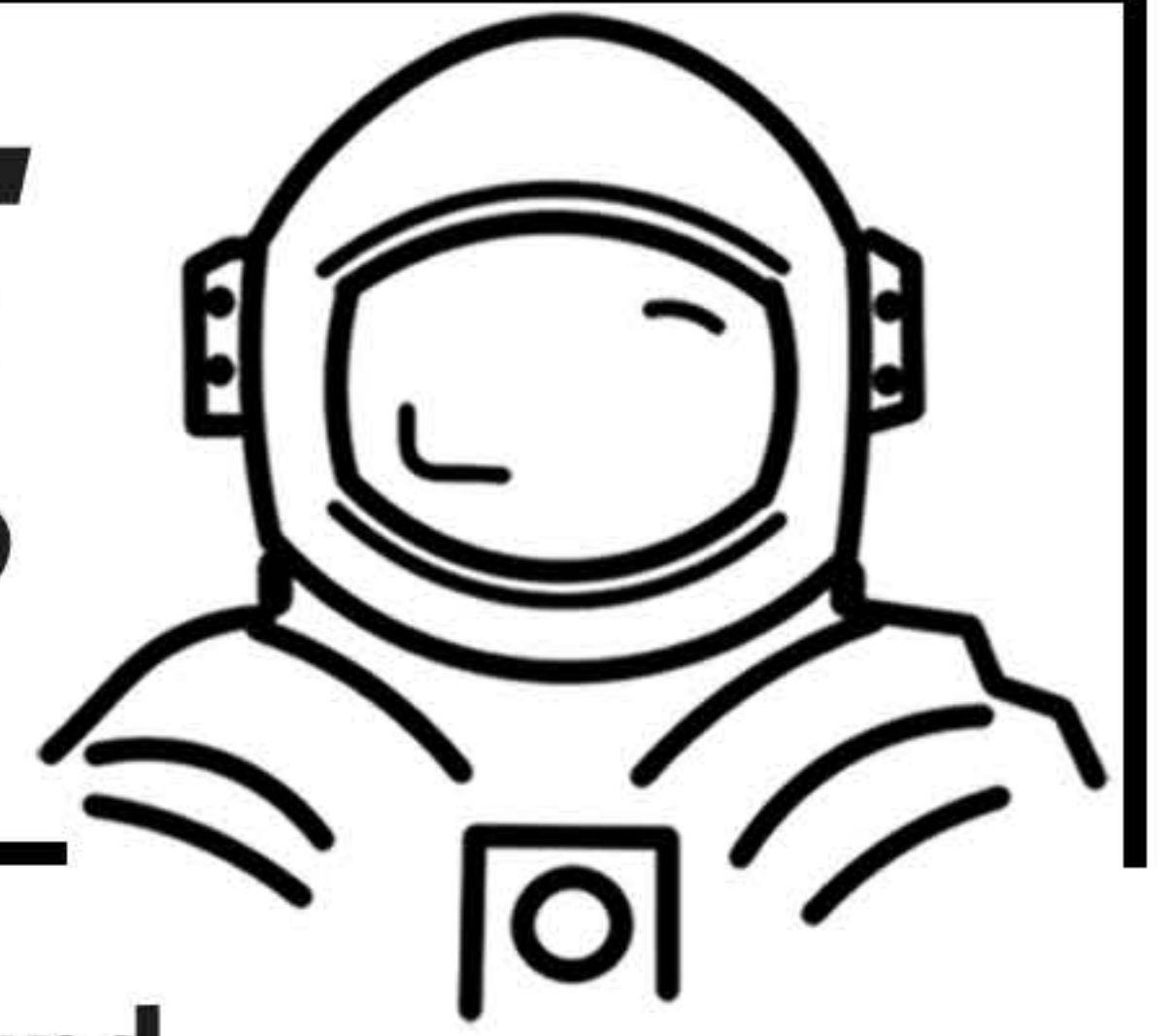# SCAN MESSAGE DECODER

The Space Communications and Navigation (SCaN) Program has antennas around the world and satellites in space to help guide and exchange important information for all NASA spaceflight missions. Astronauts, mission controllers, and scientists rely on SCaN to transmit messages from Earth to space and back in order to communicate.

MESSAGE DECODER

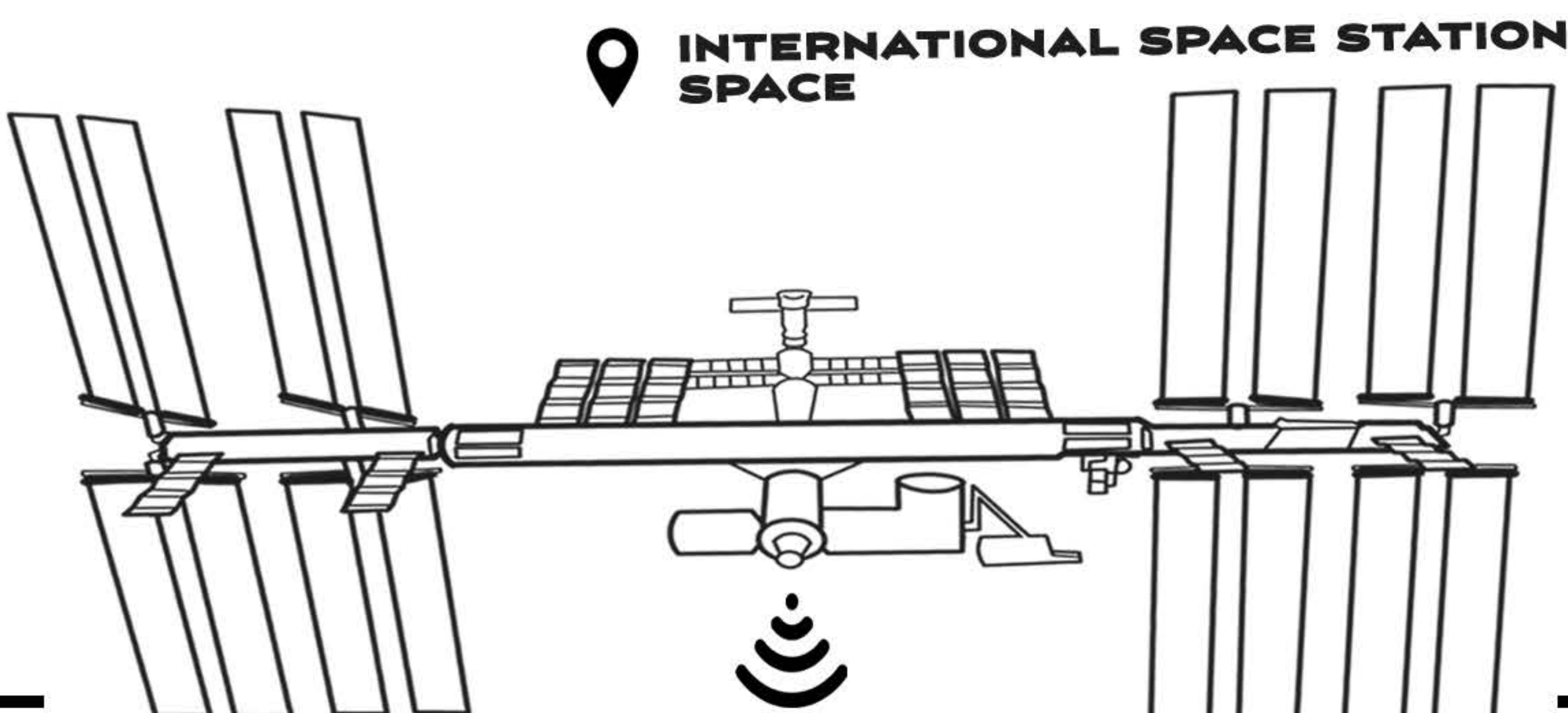|				
A = 1	B = 2	C = 3	D = 4	E = 5
F = 6	G = 7	H = 8	I = 9	J = 10
K = 11	L = 12	M = 13	N = 14	O = 15 Z = 26
P = 16	Q = 17	R = 18	S = 19	T = 20
U = 21	V = 22	W = 23	X = 24	Y = 25

NASA needs your help. Due to unexpected interference, a message from an astronaut on the International Space Station (ISS) was scrambled while being sent down to Earth. Solve the math equations below to decode the scrambled message. Make sure to check the sign in each equation to see if you need to add or subtract!

EQUATION	=	CODE
① 1 + 0		
② 18 + 2		
③ 2 + 3		
④ 14 + 5		
⑤ 4 + 1		

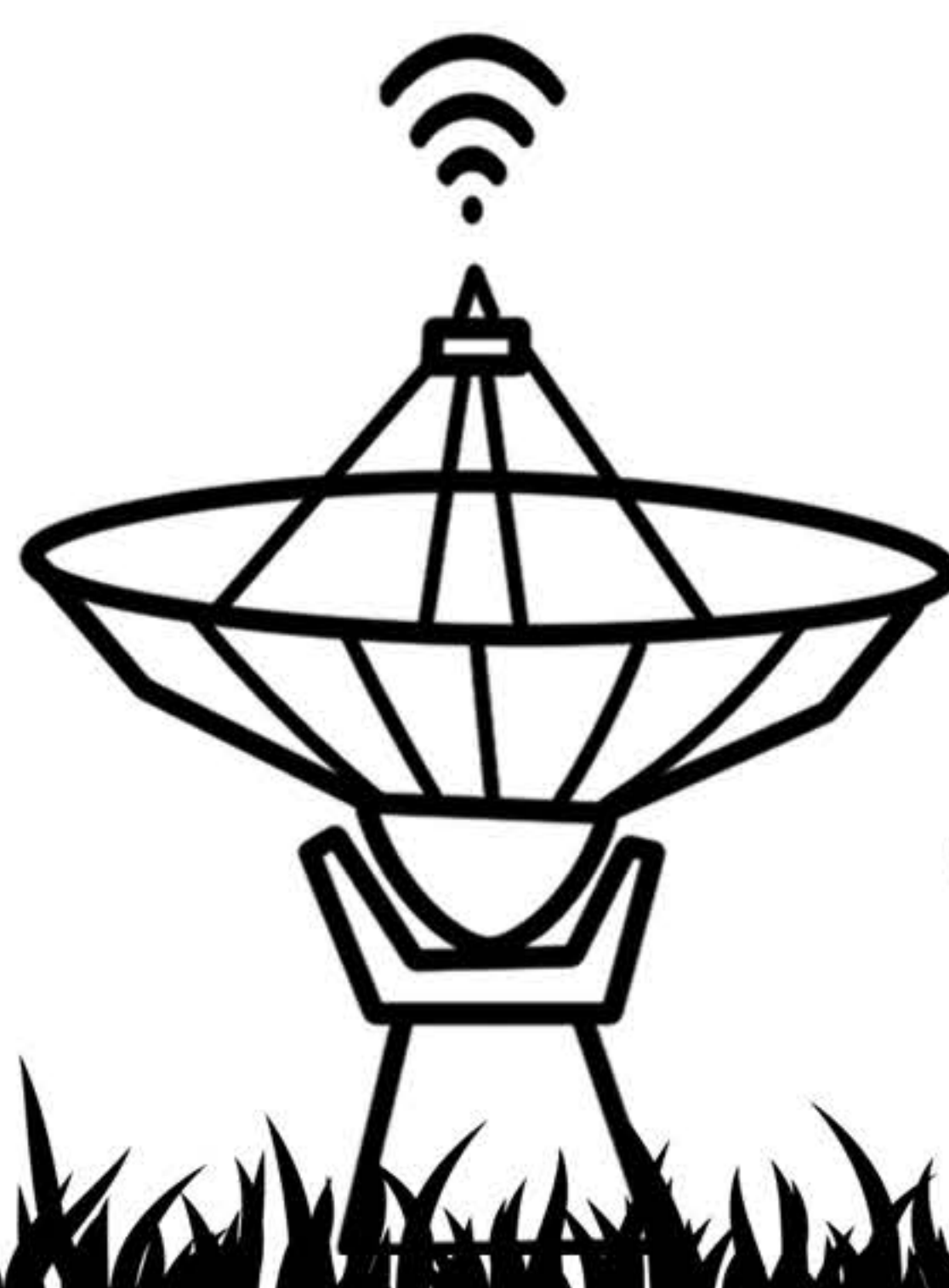| EQUATION	=	CODE
⑥ 23 - 3		
⑦ 10 - 1		
⑧ 25 - 6		
⑨ 15 - 3		
⑩ 13 - 1		

SCAN MESSAGE DECODER

📍 INTERNATIONAL SPACE STATION, SPACE

After you have solved each math equation, use your answers to decode the mystery message below. Make sure to match each decoded letter with the correct blank spot based off of the circled number on each equation. Then draw NASA a picture of the mystery message.

WRITE IT

___ ___ ___ ___ ___ ___ ___ ___ ___ ___
④ ① ⑥ ③ ⑨ ⑩ ⑦ ② ⑤ ⑧

DRAW IT

Discover More SCaN Satellite Activities!

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