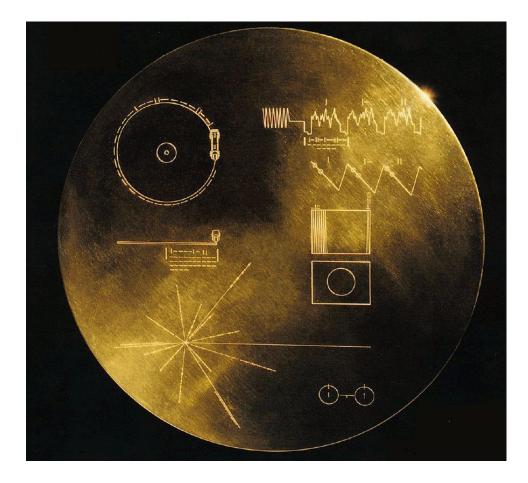
A Message For Intelligent Life Forms

The following pages show the *Voyager I* spacecraft and some of the images encoded on a golden record placed on board. *Voyager I* was launched by NASA on September 5, 1977, and it still transmits data about the outer reaches of our solar system. A team of scientists created the golden record in case intelligent life forms find the spacecraft. The record contains many pages of information about life on earth. The surface of the record contains symbols that will hopefully help someone finding the record to play it. The scientists felt that it was important to explain our number system and arithmetic symbols at the beginning so that numbers could be used to describe other items throughout the record.

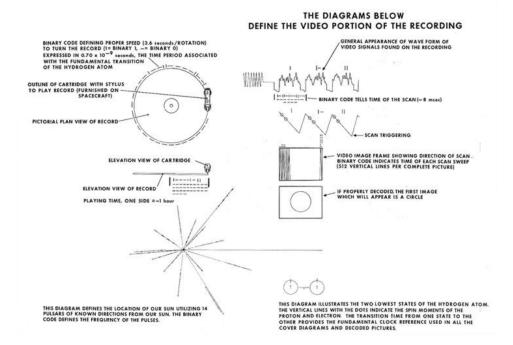
Look at the page that introduces our numbers. What do you think the scientists are trying to explain? Why did they choose the examples shown?

What do you think the scientists are explaining on the other pages? Do you think that intelligent beings would be able to understand something about life on planet earth after seeing these? If you were going to add one more page, what would you include in this message to the cosmos?

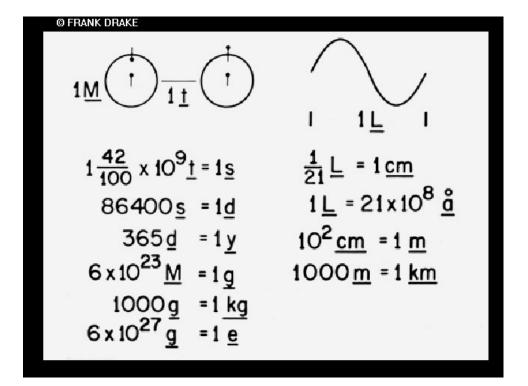


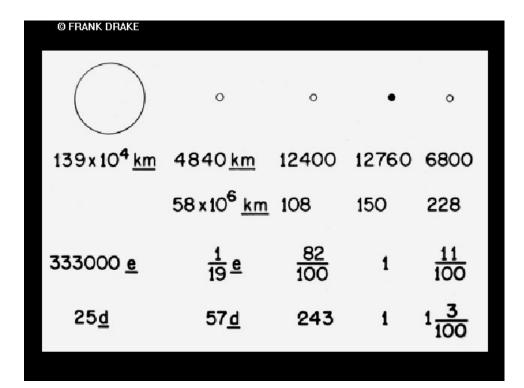


EXPLANATION OF RECORDING COVER DIAGRAM



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• = = 1	II =12
•• = - = 2	11 =24
••• = = 3	$ =100=10^{2}$
•••• = = 4	- = 1000= 10 ³
••••• = - = 5	2+3=5
••••• = - = 6	$8+17=25$ $5+\frac{2}{3}=5\frac{2}{3}$
= 7	$\frac{1}{2} + \frac{1}{3} = \frac{5}{6}$ 2 x 3 = 6
= 8	17 00-764
=9	$\frac{1}{3} + \frac{1}{5} = \frac{8}{15}$ 15 x 20 = 364
I-I- =10	





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\bigcirc	$-\bigcirc$	\ominus	0	o
142 x 10 ³ <u>km</u>	121 x 10 ³	47600	44600	14000
778 x 10 ⁶ <u>km</u>	1428	2872	4498	591
318 <u>e</u>	95	14 <u>6</u>	17 <u>2</u>	<u>9</u> 10
<u>41</u> 100 ₫	<u>43</u> 100	<u>45</u> 100	<u>65</u> 100	<u>7</u> 10

