Set up Your Science Notebooks!

5 Tab Dividers:

1st: Class Work

2nd: UNIT 1 or Space Science

3rd: UNIT 2 or Earth Science

4th: UNIT 3 or Weather-Climate

5th: UNIT 4 or Human Impacts

Sep 28-6:42 AM

How many students got to read Lesson 1 in the Space Science workbook after the pretest?

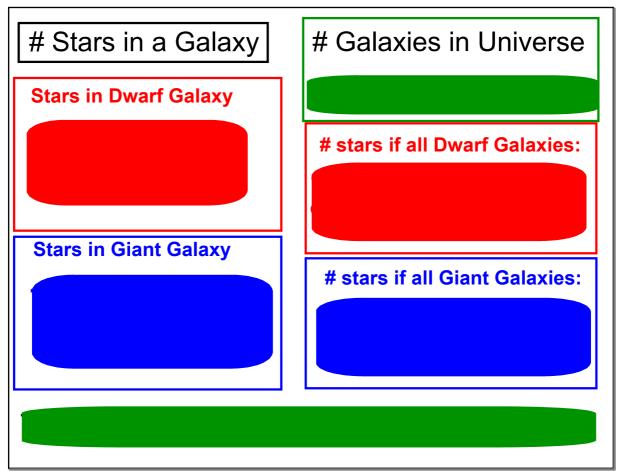
Stars in the universe? There are between

10,000,000,000,000,000,000 and

1,000,000,000,000,000,000 stars in our universe!

So, how **BIG** is our universe.

The size of our solar system is one measure of the vastness of space!



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Sep 28-6:42 AM

Making a Scale Model of Our Solar System Now the control of pure the private province and the control of the c

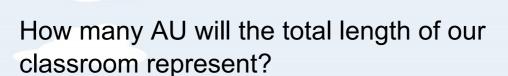
Sep 25-6:22 AM

	Size of Mrs. Morin's Science Class: 35 ft 8 in					
	Convert to inches: 1 ft = 12 in 428 in					
	Convert to centimeters: 2.54 cm = 1 in					
	How many cm? 1087.1 cm					
,	What will that distance represent if we are					
	trying to scale our solar system?					
	4,497,000,000 km					

The distance from the sun to Earth is 1 Astronomical Unit.

1 Astronomical Unit = x Km 150,000,000 km

How many cm will that be in our classroom?



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Now, I will distribute the handout.

Work with a partner at your table or as a group to calculate all of the distances on the chart on the front page (Distance from the Sun, AU and Distance from "Sun" Wall).

Planet Name	Distance from the Sun (km)	AU	Distance from "Sun" Wall (cm)
Mercury			
Venus			
Earth	150,000,000	1	36.2
Mars			
Asteroid Belt			
Jupiter			
Saturn			
Uranus			
Neptune	4,497,000,000	30	1087.1

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Planet Name	Distance from the Sun (km)	AU	Distance from "Sun" Wall (cm)
Mercury	58,000,000	0.4	14.5
Venus	58,000,000 108,000,000	0,7	25.3
Earth	150,000,000	1	36.2 36.8
Mars	228,000,000	1.5	54.3
Asteroid Belt			
Jupiter			
Saturn			
Uranus			
Neptune	4,497,000,000	30	1087.1

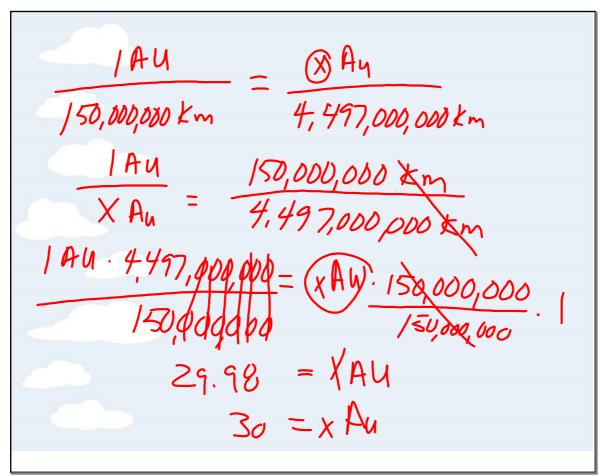
Sep 28-6:42 AM

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Venus	108,000,000	0.7	25.2
Earth	150,000,000	1	34.2 ** *
Mars	228,020,000	1.5	54.3
Asteroid Belt	550, 600,000		
Jupiter	778,000,000	5,2	188.2
Saturn	1,427,000,000	9.5	343.9
Uranus	2,871,000,000	19.1	691.4"
Neptune	4,497,000,000	30	1087.1

Sep 28-6:42 AM

Based on the video, can we use the same scale as the "distance model" and still see the various important celestial bodies in our solar system?

Let's think about a different scale for the planets by using the relationship of our sun and one of the planets. Which one makes the best sense?



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To Scale- The Solar System.mp4