LT I can describe what galaxies are and the direction they are moving.

- Q1. What Galaxy do we live in?
- Q2. What is a Galaxy?

LT I can describe the solar system.

- Q1. What Galaxy do we live in?
- (A1) The Milky-Way
- Q2. What is a Galaxy?
- (A2) A group of about 100 billion stars in a given area.

Today's Plan

Warm Up

Check HW

Watch video's and answer questions (breaks to discuss videos between topics)

what are galaxies

 $https://www.youtube.com/watch?v=vO7k8sHhMic \\ https://www.youtube.com/watch?v=-gbOt1knW3s$

http://www.youtube.com/watch?v=eRJvB3hM7K0

Quasar

http://www.youtube.com/watch?v=Et9Nnr86dVQ

Red Shift

http://www.youtube.com/watch?v=FhfnqboacV0
http://www.youtube.com/watch?v=a3RfULw7aAY
http://www.youtube.com/watch?v=3kw4id0NvJ0

Newton's Law of Universal Gravitation

http://www.youtube.com/watch?v=HrUTL8Ap2tM

https://www.youtube.com/watch?v=MTY1Kje0yLg

Name:	Period:	Date:	
Notes 2	2: Our Uni	verse	
<u>Directions:</u> Please visit the class webpage and click on the 'correlating to the topics below. Watch the videos and answe	"links" button. There you will find		, you will find the
Galaxies -What makes up a Galaxy?			
-How many stars are in a Galaxy?			
-How many Galaxies in the Universe?			
-What kind of Galaxies are there, what Galaxies do we	live in, what is it's name?		
Red Shift - Does blue light have shorter or longer wave length? V	What about red light?		
- When something is moving away from us, is the sound	d/wavelength shorten or elongat	e? Is this more like blue light or red	d light?
- What does it mean if an object has red shifted?			
- Are galaxies around us Red shifted or blue shifted? V	What does this tell us about the u	niverse?	
Newton's Law of Universal Gravitation - What is the equation for Universal Gravitation?			
- Why doesn't the moon crash into earth like an apple?			
- Simply put, what does Newton's Law of Universal Gra	vitation mean?		

Activity:

Blanket and two objects

- LT I can describe the solar system.
- Q1. What Galaxy do we live in?
- Q2. What is a Galaxy?
- Q3. List the following words in order from smallest to largest: USA, Solar System, OR, Universe, Earth, Eugene, Milky Way
- Q4. What does Red Shifting tell us about our Universe?

LT I can describe the solar system.

- Q3. List the following words in order from smallest to largest: USA, Solar System, OR, Universe, Earth, Eugene, Milky Way
- (A3). Eugene, OR, USA, Earth, Solar System, Milky Way (our Galaxy), Universe
- Q4. What does Red Shifting tell us about our Universe?
- (A4). It tells us that our Universe is moving away from each other, EXPANDING.