

Station 1

The Big Bang

Directions:

- (1) Flip you Review Packet to Page 1 (STATION 1)
- (2) Look at the Model of a Nuclear Explosion
- (3) Look through BANG! (the comic book about the Big Bang)
- (4) In your Review Packet, complete the TASK

THE TASK

A classmate is trying to explain the Big Bang Theory and says “ The Big Bang Theory is like a nuclear bomb exploding”.

Using the model of a nuclear explosion and what you know about the Big Bang, list as many ways as you can that this analogy is scientifically accurate.

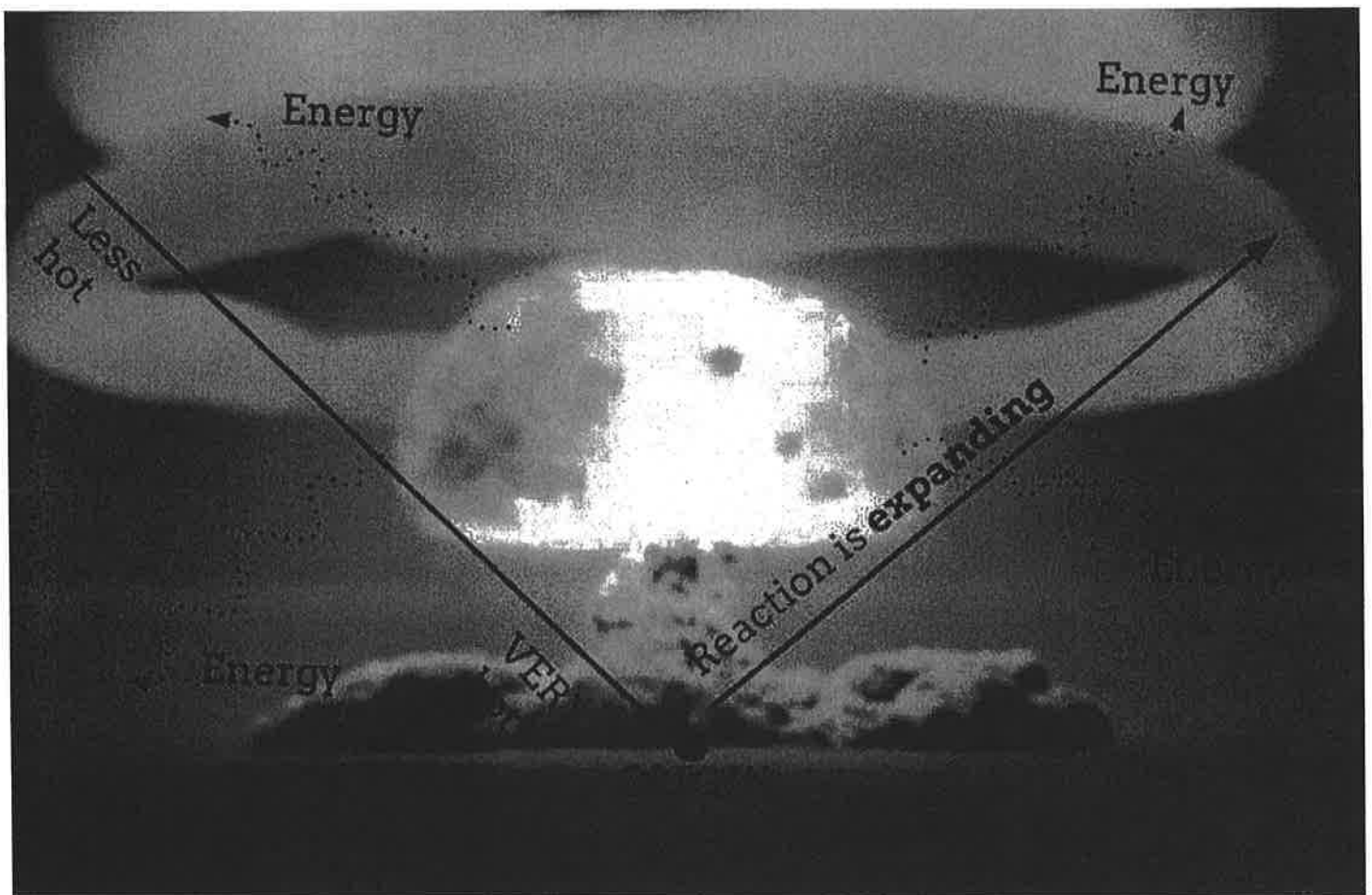
Using the model of a nuclear explosion and what you know about the Big Bang, list as many limitations of this analogy that you can. (How/ why is this analogy different than the actual Big Bang?)



Station 1

The Big Bang

MODEL OF A NUCLEAR BOMB EXPLODING



A classmate is trying to explain the Big Bang Theory and says “ The Big Bang Theory is like a nuclear bomb exploding”.

Name:

Period:

Date:

IPS Space Unit 1

The Big Bang

Review Packet

Test Date(s): _____

Final Concept Map Due: _____

On the test, I will be able to...

Create an explanation for how the universe formed and provide evidence for why scientists conclude that the Big Bang Theory explains the creation of the universe.

Concept Map Concepts:

CONCEPTS Gotta Have It List:	
- Universe	- Expansion
- Matter	- Future
- Energy	- Big Bang

Station 1

THE TASK

A classmate is trying to explain the Big Bang Theory and says “ The Big Bang Theory is like a nuclear bomb exploding”.

(1) Using the model of a nuclear explosion and what you know about the Big Bang, list as many ways as you can that this analogy is scientifically accurate.

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(2) Using the model of a nuclear explosion and what you know about the Big Bang, list as many limitations of this analogy that you can. (How/ why is this analogy different than the actual Big Bang?)

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-
-



Name:

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IPS Space Unit 1: The Big Bang

Performance Assessment Part 2

Directions:

- (1) **Choose one of the two models** shown on the next pages **OR draw your own model.**
- (2) Use the model to explain how the universe was formed.
- (3) In the model, incorporate at least 2 pieces of evidence we discussed during the unit that support the Big Bang Theory. It should be clear how these pieces of evidence support the Big Bang Theory.

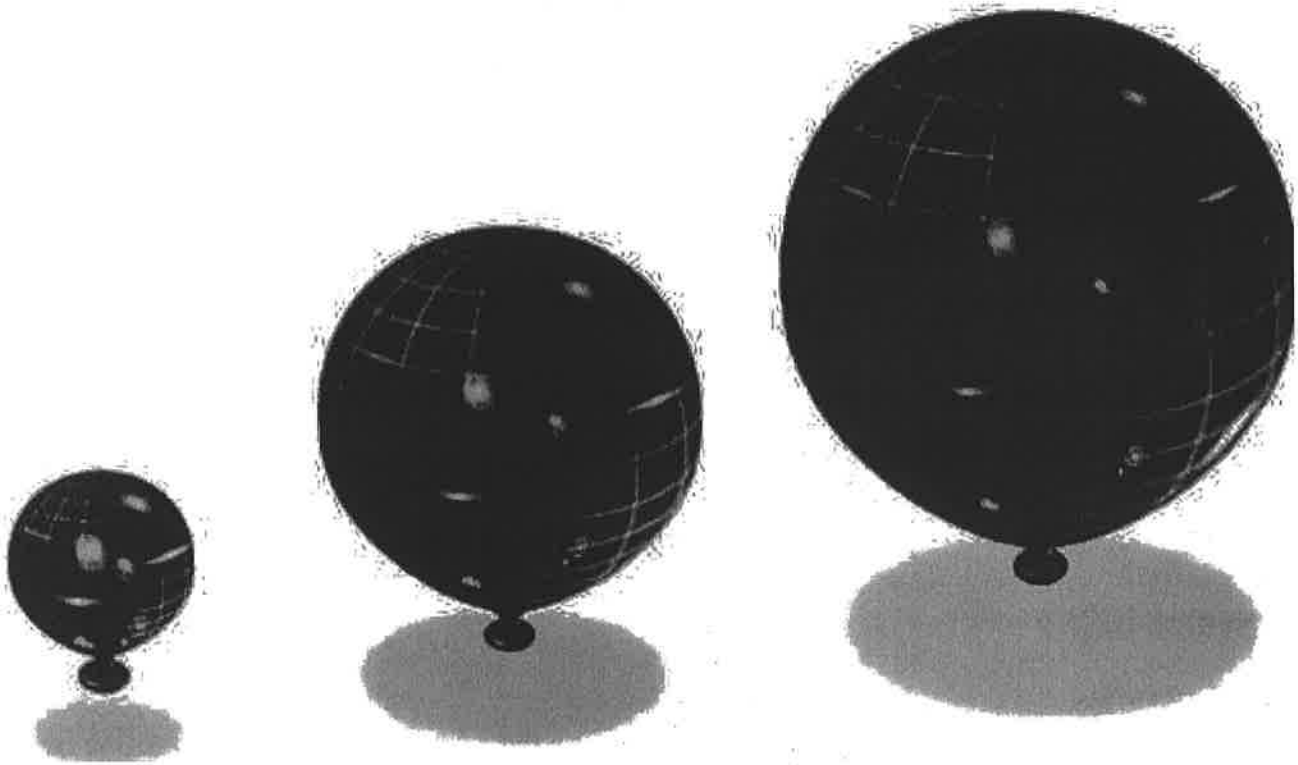
MODEL GOTTA HAVE IT LIST

- | | | |
|-------------------------|----------|-------------------------------------------------------|
| - Universe at the start | - Energy | - Expansion |
| - Universe now | - Matter | - 2 pieces of evidence supporting the Big Bang Theory |
| - Passage of time | - Heat | |

My MODEL



MODEL 1: Balloon Model



MODEL 2: Nuclear Explosion Model

