# BIG BANG DIGITAL ACTIVITY SPACE RACE

You have 40 minutes to consider the information given to you and navigate your way through space, the clock is ticking, good luck!

You are part of a specialist group of Thales researchers who have been selected to join Astronauts on an international space expedition to discover new star systems.

Individually or in small groups of 4-6 you must work together to discuss each of the four scenarios in order to navigate your way through space.

You will need access to the internet in order to research some of your theories and a pen and paper to take notes. Each decision will affect your journey so choose wisely, good luck!!





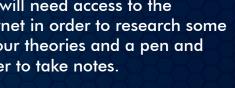


#### \*\*NOTE FOR TEACHERS

You can either read each scenario aloud to your class or for more peer directed study cut out the cards below and assign a Team Leader in each group the job of reading them to the group. You will need to assign each card at a time (do not give all the Scenario cards out together).

#### **POINTS TO CONSIDER:**

You will need access to the internet in order to research some of your theories and a pen and paper to take notes.









### BIG BANG DIGITAL ACTIVITY SCENARIO CARDS

Please use this sheet provided, by printing out each of the **four scenarios** below.



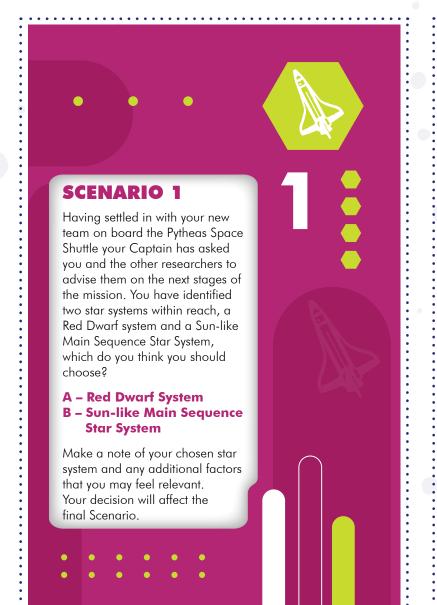


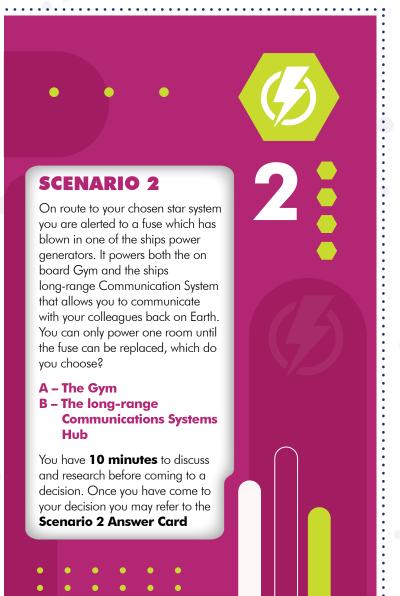


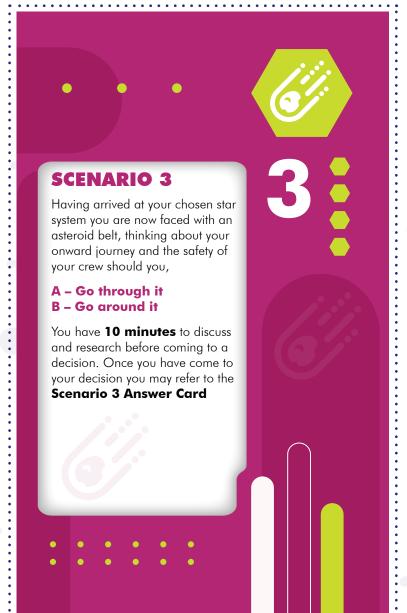




















### BIG BANG DIGITAL ACTIVITY ANSWER SHEET











Please use this sheet provided, by printing out each of the four answer cards below.

\*\*Note for Teachers, you might want to look through the advice on the answer cards in advance of the activity if you feel your students may need any additional support. Please note there is no Scenario 1 Answer card as this scenario asked them to select a Star System. The photo cards provided on page 4 give them a visual of their Star System planet which will help them with Scenario 4.







#### SCENARIO 2 ANSWER CARD

If your group decided to continue to power **the Gym** this was the right thing to do! To maintain muscle and bone density
Astronauts must exercise for at least 2 hours a day, not doing this would be seriously detrimental to your health.

Due to the massive distance between your ship and Earth it would take a long time to send any message (it takes 1 year to send a message 1 light year away). So with this in mind you could safely afford to stop powering your **Communication System Hub.** 

• • ANSWER







Get students to discuss and choose a location on the planet they went to, then provide 3 reasons for why it is a good place to land and 3 risks they are accepting by landing in their location.

**ANSWER** 

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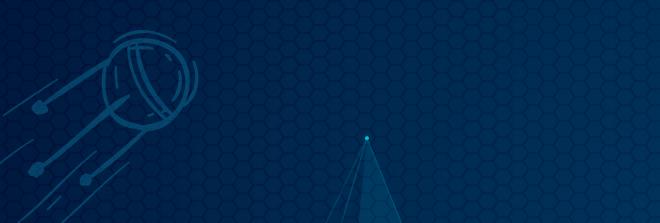
## BIG BANG DIGITAL ACTIVITY PHOTOGRAPHS

Please use this sheet provided, by printing out each of the **planet photographs** below.









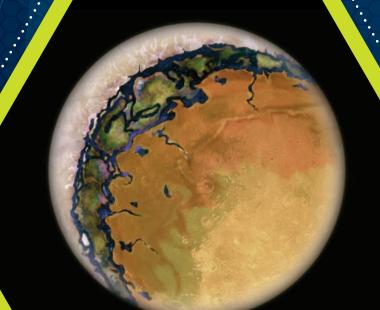


PHOTO A – RED DWARF SYSTEM



PHOTO B -SUN-LIKE MAIN SEQUENCE STAR SYSTEM

