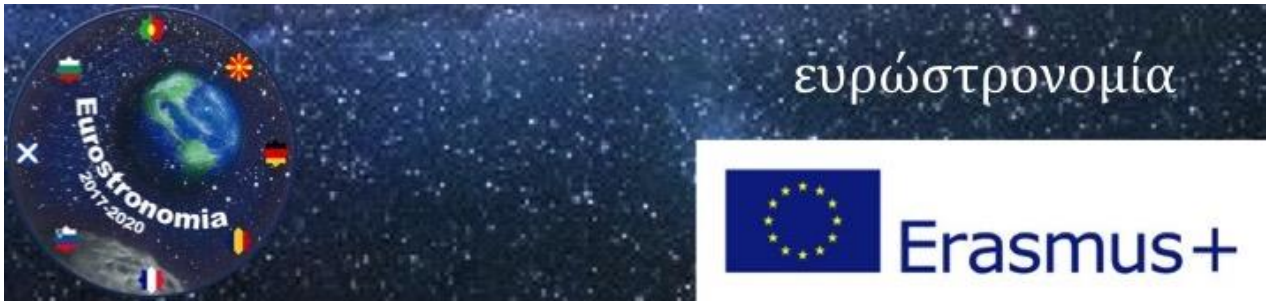

NAME /First name :..... Form :.....

Preliminary questions to get started….

1) The Astronomy Club joining us tonight is an association called *Mars 60.* What town does it belong to? When was this association created?

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2) Give the definition of a constellation. Can you state the names of 12 constellations? How many constellations has the International Astronomy Union presently identified?
To what extent is it helpful for an astronaut to be able to identify constellations?

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You have heard about the Big Bear. Can you spot it in the sky?
Give the definition of a galaxy. What is our galaxy called? How big is it?

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Among the galaxies within the Big Bear, we will be able to observe the Bode galaxy tonight. Can you locate it on a sky map? (You may download one on your smartphone.)
What symbol is associated with this galaxy? What does the letter M correspond to?

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If you look closely, you will also be able to see a double star called "Dubhe"

3) In another nearby constellation, you will find a spiral shaped galaxy (M51) and a global cluster (M3).
What constellation is it? .....
What galaxy is it?.....
Give the definition of a star cluster and global cluster.
Which global cluster is it?

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Whenever you hear about Hercules or Beehive star cluster, what type of global cluster do they correspond to? In what constellation can we find them? What is the symbol for each of them?

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4) Give the name of the brightest star of the Bouvier constellation: .....

5) In what century was the refracting telescope invented? How does it work?
What optical instruments is it made of? Who was the first to use the refracting telescope for stargazing? What calculation enables you to find the magnification?

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6) What is a telescope? Which optical elements is it made of? Who was the first to create a convincing and efficient version? How can we calculate magnification with a telescope?
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7) We are lucky today to launch a new telescope amongst 6 others at our disposal: a Newton Sky-Watcher 254. Its focal length is 1200 mm and the association Mars 60 owns two eyepieces (5 mm and 17 mm.) Which eyepiece should we use in order to observe every tiny detail on the Moon? What would the level of magnification be?
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In order to observe a star cluster with a wide field of vision, which eyepiece should we use? Again, what would the level of magnification be?

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With the support of the Erasmus+ programme of the European Union