

## AstroChallenge 2017 Project Round Questions

S/N	Question
1.	What are orbital resonances and why do they happen?
2.	Does the North Star ever move?
3.	Why do we only see one side of the moon?
4.	Why doesn't the moon fall into the Earth?
5.	Should I buy a Refractor or Reflector telescope (or something else)?
6.	How can I make my very own Telescope?
7.	How can I take a good photograph of a planet?
8.	How may astronomers, including you and I, take an image of the sun?
9.	What is a meteor shower and how can I best see one?
10.	How can I find out where I am, using only the night sky?
11.	How do we find planets beyond the solar system?
12.	How do we detect black holes?
13.	What is Radio Astronomy about?
14.	What are gravitational waves and what's so special about their discovery?
15.	How do we know what the stars are made of?
16.	How can we travel to Mars and what challenges will we face?
17.	Can we make any terrestrial planet habitable?
18.	How are stars in an Open Cluster different from stars in a Globular Cluster?
19.	Red Dwarfs, Brown Dwarfs, White Dwarfs and Black Dwarfs – why are these stars so small, yet so different?
20.	How did all the planets in the Solar System form?
21.	Is Planet X for real?
22.	What are comets and why do they have tails?
23.	I heard that the northern lights are disappearing. Is this true?
24.	Do we truly know what gravity is?
25.	How do we know that the Universe is expanding?
26.	How can we tell how old the Universe is?
27.	It is said that the dinosaurs extinct because of a collision between Earth and a huge asteroid causing the Cretaceous-Paleogene extinction event. Will an asteroid impact cause human extinction?
28.	Could a nearby supernova pose a threat to us?
29.	What will happen if we have two moons?
30.	Where else am I likely to find life, besides Planet Earth?