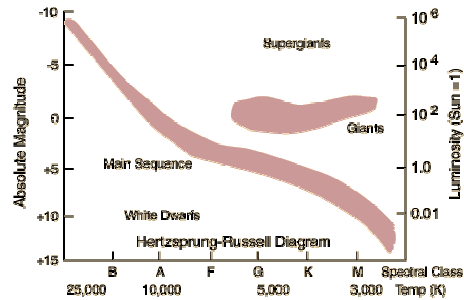


Science In Action 9 - Numerical Response Questions - Space Exploration

1. The **Hertzsprung-Russell** diagram (which includes data from thousands of stars) graphs the brightness and temperature of each class of star. Rank the stars from hottest to coolest.

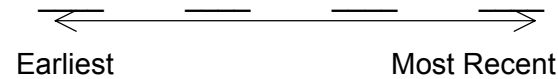


White Dwarf Giant Supergiant Sun
(main sequence)

	.	.	
0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

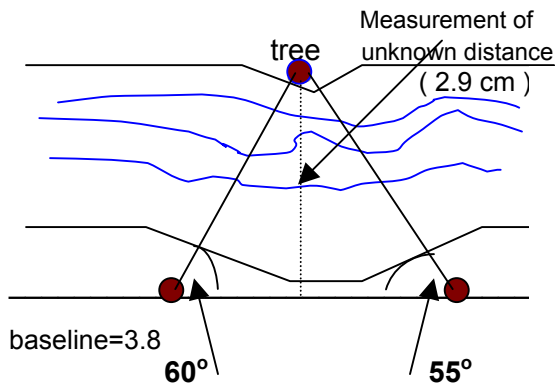
2. Place these events that represent a small part of the early achievements of space science in the order they happened, beginning with the earliest.

- 1 – Sputnik 1
- 2 – International Space Station
- 3 – Goddard's liquid fuel
- 4 – Archytas's pigeon



	.	.	
0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

3. Using the **triangulation method**, calculate (to the nearest tenth of a meter) the distance (in meters) across the river without actually crossing it.



Scale of drawing: 1cm = 15m

	.	.	
0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

4. Canadian Achievements in Space include:

- 1st Female Astronaut
- 1st Magnetic Observatory
- 1st Canadian to walk in space
- 1st Canadian in Space

Match each Canadian to their achievement

Roberta Bondar Marc Garneau Sir Edward Sabine Chris Hadfield

	.	.	
0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9