

**Solar System Research 2022**

Outcomes:

Science as a Human Endeavour; Science Inquiry; Science Understanding: Earth&Space

**Working in pairs, use library and internet resources to research one of the following topics:**

* **Famous constellations**
* **Mars rover**
* **Phases of the moon**
* **What is a blue moon?**
* **Solar weather**
* **What are the chances of the Earth being hit by a large asteroid in the next 100 years?**
* **Life cycle of a star**
* **Halley’s comet**
* **Making a sundial**
* **Why do planets orbit the sun in an elliptical shape?**
* **Could two planets in our solar system collide?**
* **How big does a meteor need to be to make it through the atmosphere?**
* **What is a black hole?**
* **What is a galaxy?**
* **How often is Earth hit by space objects?**
* **What are equinoxes and solstices?**
* **Aurora**
* **Orbital debris “space junk”**

1. Make a point form summary of information about your topic, collect diagrams and keep a list of references.
2. While you are researching, write down 5 unfamiliar words each, then find their meaning (keep references) and write a definition in your own words.
3. Make a power point presentation, with at least content slides, plus your glossary and bibliography.
4. Make a 2-3 minute speech to go with your presentation, which you will present to the class.

**You will need to hand in**

* **your point form summary**
* **a printed “handout” for your power point**
* **this assignment sheet**

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| **Marking guide /29** | | | | |
|  | 0 | 1 | 2 | 3 |
| **Information** | Very little information; incomplete | Brief information about the topic | Detailed but disorganised information about the topic | Detailed and organised information about the topic |
| **Explanation** | Unclear or not done | Brief and superficial | Reasonably detailed explanation | Clear, detailed and well explained |
| **Science content** | Science not explained. | Unclear understanding, lack of correct terminology | Reasonable understanding, using but not explaining correct terminology | Good understanding, using and explaining correct terminology |
| **Presentation** | Not presented | Read straight off the slides | Clear delivery. Read off the slides but expanded | Clear and fluent delivery. Used slide or palm cards as prompts only.  Could pronounce terminology correctly. |
| **Power point** | Text in large paragraphs, cut and paste;  No text | Text in dot points or sentences, but unclear or confusing. | Text clear, easy to read, in own words. | Visually appealing, good use of text, graphics, font/colour |
| No pictures | Some pictures | Pictures, animations and transitions |  |
| 1 to 4 slides | 5 to 7 slides | 7 to 10 slides |  |
| Many spelling or grammar mistakes | Some spelling or grammar mistakes | No spelling or grammar mistakes |  |
| **Bibliography** | No bibliography | less than 3 references | at least 3 references |  |
| **Glossary** | Less than 5 words defined | 5 -9 words defined | 10 words defined, but not necessarily in context or own words | 10 words defined in context and own words |
| **Point From Summary** | No notes | Incomplete information or whole sentences copied  Hand written | All information detailed in point form  Hand written |  |
| **Timing** | <1min or >4 min | 2min | 3 min |  |

**/30**

**Point Form Summary (Must be hand written)**

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| **Key Points** | **Notes in Point Form** |
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