## Year 7 Earth and Space

**Due Date:** Week 10/11 2018-Final Submissions by the 12th April  
Two periods in class will be provided towards completing both tasks  
**Assessment Name:** Solar System Database  
**Mark:** /37  
**Weighting:** 20%

### Syllabus Outcomes to be Assessed:

ES2 Scientific knowledge changes as new evidence becomes available. Some technological developments and scientific discoveries have significantly changed people’s understanding of the solar system.

WS7.1 Students process data and information by:

- a. summarising data from students’ own investigations and secondary sources
- b. using a range of representations to organise data, including graphs, keys, models, diagrams, tables and spreadsheets.
- c. extracting information from diagrams, flowcharts, tables, databases, other texts, multimedia resources and graphs including histograms and column, sector and line graphs

### Directives to be Assessed:

**Summarising:** Express, concisely, the relevant details  
**Organise:** Arrange systematically; order.  
**Extracting:** Choose relevant and/or appropriate details

### Task Description:

1. You will compile a database of key facts about planets in the solar system using supplied information.  
2. This will be done using the “Sheets” application on Google Classrooms.  
3. You will also need to create a travel presentation for a tour through the planets.  
4. This will be done using the “Slides” application on Google Classrooms.  
5. All students will be given access to a Google Classroom that has been set up for their class.  
6. See full task description below and the marking guidelines.

### Assessment Criteria – Student Checklist:

- Database completed, all cells filled in  
- Presentation covers 4 to 5 slides and addresses all of the points required in the marking guidelines  
- All information is included
Task Instructions

PART A – Planet Database

Use the information in the pdf files for the planets to create a 2 dimensional database using the 'Sheets' template provided for you. Each record (row) will be a different planet. The fields (columns) you must include in the table are:

- Name
- Order from the sun
- Distance from the sun (million km)
- Diameter (km)
- Surface appearance
- Surface temperature
- Atmosphere
- Length of a day
- Length of a year

This is to be completed during class time, you need to include the missing information in your data table.

PART B – Travel presentation

This task will be started in class and completed in your own time and submitted online by the due date.

You are living in the year 2200 and space travel is now available to everyone. You are working in a travel agency that specialises in tours of our solar system. Use the information that you organised in your spreadsheet and any other information you would like to research to design a Solar System Travel presentation using the 'Slides' template. Your presentation must include the following:

- A total of FOUR planets or moons to be visited on the tour (Earth can not be included).
- A picture of each of your chosen planets or moons, labelled properly. You can also include a picture of the planet's or moon's surface, if that is appropriate.
- Interesting information about each of the FOUR destinations (other than what is in your spreadsheet).
- Special clothing or equipment that the traveller will need for their stay on each of the FOUR destinations.
- CREATIVITY! Your presentation must contain a minimum of 6 slides, including your title slide, and your bibliography slide (the first and the last slides).
- Pay attention to how you transition between slides and any special effects you might like to add.

Check your assessment booklet for the PHS Assessment Policy
# MARKING GUIDELINES

## Part A - Database

<table>
<thead>
<tr>
<th>Marking Guidelines</th>
<th>Possible Mark</th>
<th>Mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Database table is fully filled out, demonstrating outstanding descriptions of the solar system, extracted from the stimulus material and accurately summarised in correct formatting, including organised in headings, all 8 planets and all 9 fields, all in outstanding detail</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Marks are awarded for the following:</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**WS7.1 Students process data and information by:**

a. **summarising** data from students' own investigations and secondary sources  
b. using a range of representations to **organise** data, including graphs, keys, models, diagrams, tables and spreadsheets.  
c. **extracting** information from diagrams, flowcharts, tables, databases, other texts, multimedia resources and graphs including histograms and column, sector and line graphs

- Information is stored in a database table format with units included in **headings**.  
  3
- Information is included, but not completed in a database table format. Units are within table.  
  2
- Very little information is given and not in a database table format.  
  0-1

- All blank fields are completed in the database table.  
  4
- Only seven to eleven fields are completed in the database table.  
  3
- No more than five or six fields are completed in the database table.  
  2
- Fewer than five fields are completed in the database table.  
  0-1

- Information is correct for each planet:  
  - Order from the sun  
  - Distance from the sun (million km)  
  - Diameter (km)  
  - Surface appearance  
  - Surface temperature  
  - Atmosphere  
  - Length of day  
  - Length of year  
  12

**Note:** 1 mark is lost for each **incorrect** (not blank fields) piece of information in the table

**TOTAL**  /19
ES2 Scientific knowledge changes as new evidence becomes available. Some technological developments and scientific discoveries have significantly changed people's understanding of the solar system.

| Travel presentation consists of 6 or more slides. | 2  |
| Travel presentation consists of fewer than 6 slides. | 1  |
| No attempt was made to complete a travel presentation. | 0  |

| Three or four planets are included in travel presentation. | 3-4 |
| One or two planets are included in travel presentation. | 1-2 |
| No planets are included in travel presentation. | 0  |

| A labelled picture of each planet or moon is included in travel presentation. | 4  |
| A picture of one planet or moon is missing from travel presentation or pictures are not labelled. | 3  |
| Two or three pictures are missing from travel presentation. | 1-2 |
| No pictures were included in travel presentation. | 0  |

| Interesting information is given for each of the four planets/moons in the travel presentation. | 4  |
| Interesting information is given for two or three of the planets/moons in the travel presentation. | 2-3 |
| Interesting information is given for one of the planets/moons OR information for each of the planets/moons is not appropriate in the travel presentation. | 1  |
| No information is given for any of the planets in the travel presentation. | 0  |

| Special clothing, equipment or activities are included and appropriate. | 2  |
| Special clothing, equipment or activities are included, but inappropriate/inadequate | 1  |
| Special clothing, equipment or activities are not included. | 0  |

| Travel presentation is creative, unique and well-organised. | 2  |
| Travel presentation is not creative or well-organised. | 1  |
| Travel presentation was not submitted. | 0  |

TOTAL /18