

Subject Knowledge Notes:		For this lesson you will need:	
- C		- A	
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Lesson Six: What do astronomers do?			
 10 minutes	<ul style="list-style-type: none"> • Students complete retrieval practice questions. Provide keywords or hints on the board for students that may require support • Teacher to model correct answers on the board – students should tick or correct their answers according to the models provided by the teacher 		
 20 minutes	<ul style="list-style-type: none"> • Introduce the key learning and then read the text as a class. • Begin reading aloud and ask children to follow under each word with their finger. • Switch readers every so often. • Emphasise any words in bold as key words/phrases. • After each section of text, pause the reading, read the question(s) to be answered and ask students to discuss with a partner what they think the answer will be to that question • Give students the required time (1-2 mins depending on writing speed) to complete an answer to the question independently • If any student is waiting, they can read the next part of the text in preparation for reading it together as a class 		
 20 minutes	<ul style="list-style-type: none"> • State that we are going to watch a video that shows a 'time lapse' of the night sky. Explain that a time lapse video taken over a long time and sped up so that we can things that normally happen very slowly. • Play this video: https://www.youtube.com/watch?v=xTvvQ65jWVs&ab_channel=NationalGeographic <p>Ask students to consider the two questions and provide these explanations:</p> <ul style="list-style-type: none"> - It has always looked like the Sun, Moon and sky were moving across our sky for a long time so people thought that the Earth was the thing that is standing still. It is only after humans travelled around the world and realized it was a large sphere and that planets like the Earth in fact orbited the Sun that we realized the Earth was not the centre of the universe 		
 15 minutes	<ul style="list-style-type: none"> • This task has been created to provide students with examples of people who have contributed to astronomy in the past. It is worth explaining that thousands of people have made contributions from all over the world across history but this fact file shows exams of four of them • Depending on your classroom, their reading level and their level of independence, they may be able to read the fact file and complete the match up task themselves. If not, read through it as a whole group and complete the match up task as the whole group. 		
 20 minutes	<ul style="list-style-type: none"> • The idea of this tasks is for students to zone in on their understanding of one the astronomers listed (if you have capacity and time in lesson for them to do some further research of another astronomer inside or outside of the classroom, that would also work for this task!) • The first section involves questions for them to answer about their chosen astronomer using the information provided on the previous page. Students should answer these questions in relation to that astronomer. • The open writing section underneath is there for students to take the information provided in their answers to the questions above to write a report on a given astronomer 		

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	<ul style="list-style-type: none">• It will likely be appropriate to provide sentence starters for the beginning of each paragraph for the students and possibly to even write a model example on the board together before the students complete this task independently but this will need to be judged based on knowledge of the class involved.
 10 minutes	<ul style="list-style-type: none">• Ask children to read Newton's quote about seeing further by standing on the shoulders of giants and to consider what he means.• After 5 mins, ask children to raise their hands to share ideas. Support students by breaking down the question into two parts – who we mean by the giants and what he means by the idea of him standing on them.• Encourage children to use the sentence stems: <i>"I think he means _____ when he talks about the giants. By standing on their shoulders, he means _____"</i>
 5 minutes	<ul style="list-style-type: none">• Return to page 3 and explain what astronomers do.