Topic: *The Earth, Sun & Moon* Lesson: *Science Y5 term 3* Date:

1. Connect the Learning Remind the pupils of previous learning that is related to the lesson.	Bell Activity *Based on previous practical work, measuring & tracking the movement of shadows and the position of the Sun, children draw position and length of a shadow according to the given position of the Sun. (see attached sheet)* *Discuss outcomes.*	**Resources** *Prepared sheet Sc1.* *Posters of the Solar System* *Lamp- to represent the Sun.* *Video tape* *Post it notes for questions*
2. The Big Picture Within 3-4 minutes explain how this lesson fits into the whole topic of work (particularly important at the beginning of the topic).	*Discussion on how we measure time, reference to be made to work in History lessons & how time was measured in the past. How do we deicide how long a day is? Why do we not go to bed when it's dark and get up when it's light ?* *Draw on experiences of travelling abroad, or telephoning relatives in other countries – time zones.* *Remind the children of the video on day length and how it changes as you journey north.*	
3. The Learning Outcomes Within 5 minutes of the start of the lesson tell the children what they will have learned by the end.	*Children will know how the Earth moves in relation to the Sun. That it spins on its axis every 24hrs giving day and night and takes 364.25 days to complete its journey. Seasons.* *Some children will also the movement of the moon, why it appears to change shape over 28 days and how an eclipse takes place.*	
4. Input / Introduction 10 mins Present new information through as many of the senses as possible.	**V** *Posters around the classroom, book table, video running. Children to visit each in turn – (music – Walking On The Sun)* **A** *Video as above. Discussion in groups of three.* **K** *Teacher led demonstration – (lamp as Sun) Everyone moves as 1.Sun 2.Moon.*	

5. Activity (10 mins) This is the main part of the lesson, provide a variety of activities based on multiple intelligences. **Review (2 mins)** ⇨ **New Activity (10-15 mins)** ⇨ **Stop and review** ⇨	*In groups, children to use the available resources to produce their own demonstration of the movement of the Earth and Moon in relation to the Sun, over one day.* *Demonstrate to class.* *Feedback from audience. Introduce ideas fro demonstrating movements over a year and why an eclipse takes place.* *Children attempt to demonstrate their ideas.* *Use questions from post its to focus discussion. Invite children to answer each other questions.*	**Equipment** *Balls of various sizes* *Globes with small plasticine figure* *Teaching clock*
6. Demonstrate Pupils demonstrate in some way what they have learned perhaps by sharing with a partner, producing a picture, rhyme or writing.	*Children to look at pictures of themselves performing the activity. Add text to explain what is happening.* *Produce a picture/diagram in their science book to explain their understanding.*	
7. Review and Preview Refer to the learning outcomes. Use memory hooks to help pupils remember.	*Using the lamp & children to represent the Sun & Earth, children to guess the time of day according to positions and the time on the other side of the world.* *One child to illustrate what they would be doing at different times as the Earth moves.* *Ask for ways to remember length of a day, year, leap year.*	