## THE SOLAR SYSTEM Teaching Notes UNIT 2

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TEACHING NOTES		THE SC	DLAR SYSTEM	
UNIT 2: THE PLANETS	SUBJECT: SCIENCE	<b>LESSON 1:</b> UNCOVERING THE PLANETS	<b>TIMING:</b> 60 MINUTES	<b>COURSE:</b> 6th GRADE
OUTLINE				
Start with a revision act	ivity in which	students complete	e orally a graphic or	ganiser with some
words missing. Then, to	o introduce ur	nit 2 use a rhyme	e that leads to an u	ncovering acrostic
activity. End the lesson	with a matchin	ig activity to prese	nt new information p	lus an oral task to
offer more input about th	e planets.			
ACTIVITY 1: Can you h	elp me?			RESOURCES
Grouping: plenary				NEEDED
Choose a student as the graphic organiser using and encourage them to I words. Ask the "official w on the board. Then, show (slide 4, Support teaching by the students with those Suggested sentences/qu students: "Which word is missing for "And here? What do you "What about?"	Power Point ( nelp you comp rriter" student w the complete g resources 2) se in the final c uestions used	slide 3, <i>Support to</i> lete the diagram b to write the words ed graphic organis . Finally, compare liagram.	eaching resources 2) by saying the missing said by the students er using <i>Power Point</i> the words suggested	STR 2 (Power Point, slides 3 and 4) Projector Computer Board
KEY SOLUTIONS (STR 2, Power Point, slide 3)         Words missing: 1-14; 2-the Universe; 3- 1 or 2; 4-Milky Way; 5-asteroids; 6-stars; 7-Sun; 8-moons; 9-Earth; 10-7         ACTIVITY 2: Finding out!				
Grouping: plenary				RESOURCES NEEDED
Show students Power Po	<i>pint</i> (slide 5, <i>Su</i>	Ipport teaching res	<i>sources 2</i> ). By saying	
"Can you say this rhyme.	?"let the stude	ents repeat the rhy	me aloud. Encourage	STR 2 (Power
them to think why this rl	hyme and why	the first letter of	each word is in bold.	Point, slides 5
In case students don't k	now a word, t	tell them the mea	ning. Write students'	and 6)

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suggestions down on the board so they have visual written support. Then, show students <i>Power Point</i> (slide 6, <i>Support teaching resources 2</i> ) and ask them to say one by one the words hidden in the acrostic, which have the same letters as those in bold from slide 5. As students say each word, uncover it and encourage them to repeat it aloud after you so as to practise pronunciation. Now, tell students unit 2 is about the planets.Projector Computer BoardKEY SOLUTIONS (STR 2, Power Point, slide 6) M: Mercury; V: Venus; E: Earth; M: Mars; J: Jupiter; S: Saturn; U: Uranus; N: NeptuneACTIVITY 3: Matching facts Grouping: individualRESOURCES NEEDEDHand out Worksheet 7. Explain there are 9 boxes with interesting facts about the planets and the Sun and 9 more with the names of these. Ask the students to read the information carefully and tell them to match the boxes from the left with the ones from the right. Let the students know previously that the information given in Worksheet 7 is almost all new for them so they think, identify and connect information. Ask them to compare their answers in pairs. Then, correct the photocopy orally with the whole group and write the answers on the board.Worksheet 7 BoardKEY SOLUTIONS (Ws 7) 1-C; 2-8; 3-E; 4-D; 5-I; 6-G; 7-H; 8-F; 9-ARESOURCES NEEDEDACTIVITY 4: Adding information Grouping: groups of four Put the students into groups of four and hand out a slip of paper from Sheets 6A and 6B (Support teaching resources 2) each. Ask the students to cut out
them to say one by one the words hidden in the acrostic, which have the same letters as those in bold from slide 5. As students say each word, uncover it and encourage them to repeat it aloud after you so as to practise pronunciation. Now, tell students unit 2 is about the planets.BoardKEY SOLUTIONS (STR 2, Power Point, slide 6) M: Mercury; V: Venus; E: Earth; M: Mars; J: Jupiter; S: Saturn; U: Uranus; N: NeptuneRESOURCES NEEDEDACTIVITY 3: Matching facts Grouping: individualRESOURCES NEEDEDNeptuneHand out Worksheet 7. Explain there are 9 boxes with interesting facts about the planets and the Sun and 9 more with the names of these. Ask the students to read the information carefully and tell them to match the boxes from the left with the ones from the right. Let the students know previously that the information given in Worksheet 7 is almost all new for them so they think, identify and connect information. Ask them to compare their answers in pairs. Then, correct the photocopy orally with the whole group and write the answers on the board.Worksheet 7 BoardKEY SOLUTIONS (Ws 7) 1-C; 2-B; 3-E; 4-D; 5-I; 6-G; 7-H; 8-F; 9-ARESOURCES NEEDEDPut the students into groups of four and hand out a slip of paper from SheetsRESOURCES NEEDED
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Put the students into groups of four and hand out a slip of paper from <i>Sheets</i>
6A and 6B (Support teaching resources 2) each. Ask the students to cut out
each word from the box and use the list of key words provided to make a
sentence by ordering them. Tell them the first word in the sentence is
underlined and the last word has got a full stop; there can also be words
joined together, so it means they put one after the another. One "speaker"
from each group says the whole sentence aloud. Then, ask them which planet
they think the sentence is about. Encourage the students to say things they 6A and 6B)
already know about the planets and write them on the board. Take a piece of
information from the board and write a sentence with it; e.g. if the students Scissors
said "big planet" in reference to Jupiter, then you can write "Jupiter is a very

THE SOLAR SYSTEM	TEACHING NOTES
big planet". Ask the students to say which new words you added to the	
information they gave and underline them. Explain that, as in the example,	
you want them to make sentences that make sense. Suggest a set of starting	
sentences for each group to add new information orally so as to form	
complete sentences (each student adds at least one word). Encourage them to	
also create new ones orally. Remind students to put worksheets/slips in their	
portfolio.	
Starting sentences proposed by the teacher on the board for each group:	
"Mercury is the smallest"	
"Jupiter is the biggest"	
"The Earth"	
"Uranus has"	
"Saturn is the most"	
"Neptune is the farthest"	
"Mars is also called"	
"Venus is the second"	
KEY SOLUTIONS (STR 2, sheets 6A and 6B)	
Planet 1: Earth (Oxygen in the atmosphere allows humans and animals to bread	athe); <b>Planet 2</b> :
Venus (Its name comes from the Roman goddess of love); Planet 3: Mercury	(It is the closest

planet to the Sun); **Planet 4**: *Mars* (It is a red planet and has got craters); **Planet 5**: *Jupiter* (Its Great Red Spot is a giant storm); **Planet 6**: *Neptune* (It is the most distant planet from the Sun); **Planet 7**: *Saturn* (It has a big beautiful system of rings); **Planet 8**: *Uranus* (It starts with letter U and ends with S).

TEACHING NOTES	THE SOLAR SYSTEM			
UNIT 2: THE PLANETS	SUBJECT: SCIENCE	LESSON 2: LET ME KNOW MORE!	<b>TIMING:</b> 60 MINUTES	<b>COURSE:</b> 6th GRADE
OUTLINE				
Introduce lesson 2 with an example on a power point slide. Then, through an ICT-based activity,				
let the students discover new key facts about the planets by themselves. By doing these tasks,				
students construct their knowledge about the planets using the internet as a means of getting				
information and helping them to develop some learning skills (locating, organising and				

interpreting information as well as identifying key vocabulary and communicating	J).
ACTIVITY 1: Let's take a look! Grouping: plenary	RESOURCES NEEDED
Show the students <i>Power Point</i> (slide 7, <i>Support teaching resources 2</i> ) and say " <i>What can you see in this frame?</i> " Discuss the students' suggestions and	STR 2 (Power
comment on every key fact displayed about the Sun in the example shown.	Point, slide 7)
	Projector
Ask the students why this information is in the frame and encourage them to predict what the next activity is about. Explain that you showed them the slide	2
	Computer
because this is what has to be done next but with planets.	
ACTIVITY 2: Approaching the planets	RESOURCES
Grouping: groups of three	NEEDED
Put students into groups of three and hand out a slip of paper from Sheets 7A,	
7B, 7C and 7D (Support teaching resources 2) each. There are eight different	
slips according to the eight planets so that each group concentrates on a	
planet. Write on the board these three websites:	
http://amazing-space.stsci.edu/eds/tools/topic/solarsystem.php	
http://solarsystem.nasa.gov/planets/index.cfm	
http://www.enchantedlearning.com/subjects/astronomy/	STR 2 (Sheets
Tell the students to use the links above to complete the grid given as in the	7A, 7B, 7C and
PPT slide example. Suggest taking a look at the three websites before getting	7D)
the information in order for students to know where they can get it from. Tell	Computers
them these links don't lead them to the exact page about the planet they want	Internet
but to a general one in which the name of all the planets can be read; they	Board
just need to look for theirs and click on to get the information. Students don't	
need to get the information from all three websites since it depends on their	
website preferences. Tell them there are some differences from one website to	
another but all are acceptable. Each student searches for at least one piece of	
information from the ones suggested, but not necessarily from a different	
website. Help the students when needed if they can't find the information on	
the internet.	
KEY SOLUTIONS	

Because the three websites listed show small differences in the results, there is no *Key Solutions* on display. All of them can be accepted.

THE SOLAR SYSTEM	TEACHING NOTES
ACTIVITY 3: Hot seat!	RESOURCES
Grouping: groups of three/plenary	NEEDED
Tell students to stay in the same groups of three. Ask a group to sit in front of the class to answer questions about their research. Then, ask another group to sit in the "hot seat" and so on until the eight finish. Students ask each member of the group so as the three of them participate. Students in the "hot seat" can look at their completed grids. Scaffold the question/answer activity with some language support on the board. Let the students suggest other suitable questions/answers. Remind students to put worksheets/slips in their portfolio. Suggested questions to be written on the board: " <i>How old is your planet?"</i> " <i>What is the distance between the Sun and your planet?"</i> " <i>What's the temperature?"</i> " <i>What's the temperature?"</i> " <i>What's the temperature?"</i> " <i>Can you say any interesting feature about the planet you worked on?"</i> Suggested answers to be written on the board also: " <i>Our planet/(name of the planet) isyears old"</i> " <i>The distance between our planet/(name of planet) isoC"</i> " <i>Our planet/(name of planet) is/isn't very big. It is bigger/smaller than the Earth"</i> " <i>What I can say about (name of planet) is that"</i> (open)	STR 2 (Sheets 7A, 7B, 7C and 7D) Board

TEACHING NOTES	THE SOLAR SYSTEM			
UNIT 2: THE PLANETS	SUBJECT: SCIENCE	COURSE: 6th GRADE		
OUTLINE				
Give the students tools	-	-		
contents worked on so f			-	-
about the planets. A v organise and classify data		wap interview clo	ses lesson 3 where	students identify,
ACTIVITY 1: I bet you	can!			RESOURCES
Grouping: groups of thre	e	AFL	Activity (1)	NEEDED
To start lesson 3, studen (the same as in the last sentences with general in say if the sentences are from <i>Support teaching ra</i> points. Then, for each se but never more than wha "false", they lose the more are right in saying "true" mathematical operations At the end of the game, the	E lesson) and h nformation about true or false. In esources 2) and entence studen at they have. I ney bet, so tak for "false", adout in the corresp the group with	hand out <i>Workshee</i> but the topic. One Draw a chart on the d explain that eac ts bet a certain am f students are wron the it away from the d the money bet to bonding grids of ea	et 8. There are eight by one, ask them to e board (see <i>Sheet 8</i> h group is given 100 hount of their budget, ng in saying "true" or ir budget; if students their budget (do the ach group/sentence).	Worksheet 8 STR 2 (Sheet 8) Board
<b>KEY SOLUTIONS</b> (Ws 8) <i>Sentences</i> : S1-True; S2-False; S3-True; S4-False; S5-False; S6-False; S7-True; S8-True				
<b>ACTIVITY 2:</b> <i>Trio dictat</i> Grouping: groups of thre				RESOURCES NEEDED
Ask the students to stay slips of paper from <i>Work</i> with the same planet in Tell them the three slips missing which is differen reading where each one One student from each	the title (the s contain the s t in each case dictates the pa	2. Each student in t same planet as wo ame text but there and the students art of the text the o	he group holds a slip rked on in lesson 2). e is some information to do a collaborative other two don't have.	

group.	
<b>KEY SOLUTIONS</b> (Ws 9 A-L) See <i>Sheets 9A – 9C</i> from Support teaching resources 2	
ACTIVITY 3: Why don't we swap? Grouping: pair work/plenary	RESOURCES NEEDED
Hand out <i>Worksheet 10</i> . Ask the students to interview a partner from each of the groups from the last two activities to get the information needed. Write on the board " <i>Which is your planet?</i> " in order for them to ask each interviewee and not to repeat the same planet. Both activity 1 and 2 from this lesson are suitable to help them answer, so let them keep at hand the slips of paper used. They use the box in the sheet as a language support to remember the planets to ask about. Ask students to read their answers aloud and compare possible differences. Discuss them with the students. Remind students to put worksheets/slips in their portfolio.	Worksheet 10 Board

TEACHING NOTES	THE SOLAR SYSTEM				
UNIT 2: THE PLANETS	SUBJECT:LESSON 4:TIMING: 60COURSE: 6SCIENCENUMBER QUIZMINUTESGRADE				
<b>OUTLINE</b> Relate this lesson with Maths (+, -, x and :). Students deal with reduced versions of the texts worked on in lesson 3 (revision of concepts and identifying information). Suggest a number quiz with the same groups of three as in lessons 2 and 3 (activity 2, parts I and II). Act as a walking resource helping students when needed. Give the students feedback at the end of the lesson through an oral activity.					
ACTIVITY 1: Reading together!       RESOURCE         Grouping: groups of three       NEEDED			RESOURCES NEEDED		
Show students <i>Power Po</i> are some examples of the show them the connect	e four basic n	nathematical operat	tions (+, -, x and :);	STR 2 (Sheets	

THE SOLAR SYSTEM	TEACHING NOTES
word in English; ask them to repeat the words in English aloud. Put the	and 10B)
students into the same groups of three as in previous lessons. Hand out the	STR 2 (Power
slips of paper from Sheets 10A and 10B (Support teaching resources 2). Give	Point, slide 8)
the students two minutes to read the questions from each slip. Say "Time"	
every two minutes and students change the slip so that they are able to read	
all five (approximately 8-10 minutes).	
ACTIVITY 2: Stand up, sum up! (PART I)	RESOURCES
Grouping: groups of three	NEEDED
Stick on the class walls the slips of paper from Sheets 11A and 11B (Support	STR 2 (Sheets
teaching resources 2). Explain there are some texts with information	11A and 11B)
connected to the answers from <i>Sheets 10A</i> and <i>10B</i> given previously. Hand	Worksheet 11
out Worksheet 11 to each group. Ask the students to stand up and in groups	Projector
of three to answer the questions (each group works at its own pace). Tell	Computer
them letters/numbers in bold from the texts can help them.	computer
KEY SOLUTIONS (Ws 11)	
See Sheet 12 from Support teaching resources 2.	
ACTIVITY 2: Stand up, sum up! (PART II)	RESOURCES
Grouping: groups of three	NEEDED
Hand out Worksheet 12 to each group. Students complete the grid given by	
Hand out <i>Worksheet 12</i> to each group. Students complete the grid given by using the results from worksheet 11. Check the answers with <i>Sheet 13</i> from	
using the results from worksheet 11. Check the answers with Sheet 13 from	Worksheet 12
using the results from worksheet 11. Check the answers with <i>Sheet 13</i> from <i>Support teaching resources 2</i> . If the answers are correct, the first group to	
using the results from worksheet 11. Check the answers with <i>Sheet 13</i> from <i>Support teaching resources 2</i> . If the answers are correct, the first group to finish wins; if the answers are wrong, tell them where they failed and to revise	
using the results from worksheet 11. Check the answers with <i>Sheet 13</i> from <i>Support teaching resources 2</i> . If the answers are correct, the first group to finish wins; if the answers are wrong, tell them where they failed and to revise whether the mathematical operation done (worksheet 12) or the answer given	
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using the results from worksheet 11. Check the answers with <i>Sheet 13</i> from <i>Support teaching resources 2</i> . If the answers are correct, the first group to finish wins; if the answers are wrong, tell them where they failed and to revise whether the mathematical operation done (worksheet 12) or the answer given previously (worksheet 11) to get the correct number. <b>KEY SOLUTIONS</b> (Ws 12) See <i>Sheet 13</i> from <i>Support teaching resources 2</i> .	Worksheet 12
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using the results from worksheet 11. Check the answers with <i>Sheet 13</i> from <i>Support teaching resources 2</i> . If the answers are correct, the first group to finish wins; if the answers are wrong, tell them where they failed and to revise whether the mathematical operation done (worksheet 12) or the answer given previously (worksheet 11) to get the correct number. <b>KEY SOLUTIONS</b> (Ws 12) See <i>Sheet 13</i> from <i>Support teaching resources 2</i> . <b>ACTIVITY 3:</b> <i>Giving feedback</i> Grouping: plenary Read one by one all the questions from <i>Sheets 11A</i> and <i>11B</i> and ask the students to answer them aloud (they look at worksheet 11). Show students	Worksheet 12
using the results from worksheet 11. Check the answers with <i>Sheet 13</i> from <i>Support teaching resources 2</i> . If the answers are correct, the first group to finish wins; if the answers are wrong, tell them where they failed and to revise whether the mathematical operation done (worksheet 12) or the answer given previously (worksheet 11) to get the correct number. <b>KEY SOLUTIONS</b> (Ws 12) See <i>Sheet 13</i> from <i>Support teaching resources 2</i> . <b>ACTIVITY 3:</b> <i>Giving feedback</i> Grouping: plenary Read one by one all the questions from <i>Sheets 11A</i> and <i>11B</i> and ask the students to answer them aloud (they look at worksheet 11). Show students <i>Power Point</i> (slide 9 from <i>Support teaching resources 2</i> ) with the answers in	Worksheet 12 RESOURCES NEEDED

CEIP Miguel de Unamuno

THE SOLAR SYSTEM	TEACHING NOTES	
Support teaching resources 2); do not show the answer but the letter of the	STR2 (Sheets	
question. Wait for their answer and then, uncover it. Clarify any of the	11A and	
questions/answers when needed. Remind students to put worksheets/slips in	11B)	
their portfolio.	Worksheet 11	
Suggested questions used by the teacher when asking the students from	Worksheet 12	
Power Point (slide 10, Support teaching resources 2):	Board	
"What is the result for question number 1?" (and so on until 13)	Projector	
"What have we got in number 2?"	Computer	
"What about number 3?"		
Suggested sentences used by the students when answering Power Point		
(slides 9 and 10 from Support teaching resources 2) and worksheets 11 and		
12 (to be written on the board):		
"Letter A is" (and so on until Y)		
"The answer for letter B is"		
"We've gotfor letter C"		
"Question number 1 is" (and so on until 13)		
"The result for number 2 is"		
"We've gotin number 3"		
KEY SOLUTIONS (Ws 11 and Ws 12)		
See Power Point (slides 9 and 10 from Support teaching resources 2) or Sheets 12 and 13		
(Support teaching resources 2).		

TEACHING NOTES	THE SOLAR SYSTEM				
UNIT 2: THE PLANETS	SUBJECT: SCIENCELESSON 5: ACROSS THE UNIVERSETIMING: 60 MINUTESCOURSE: 6th GRADE				
OUTLINE					
Start lesson 5 with a little experiment based on galaxies. Then, watch a video about the Universe.					
In a second watching of the video, students identify and make choices with both already known					
and unknown vocabulary in a group activity. Students do two more follow-up activities just to get					
familiar with some important issues about the Universe such as galaxies, asteroids, nebulae,					
comets, constellations and stars, to reinforce the work done so far.					

THE SOLAR SYSTEM	TEACHING NOTES
ACTIVITY 1: Expanding Universe Grouping: individual	RESOURCES NEEDED
Show students <i>Power Point</i> (slide 11, <i>Support teaching resources 2</i> ). Ask the questions one by one but do not show the answers. Wait for the students' answers and then, uncover them. Show <i>Power Point</i> (slide 12, <i>Support teaching resources 2</i> ). Discuss with students the expansion facts in the Universe shown in the slide. Tell students they are going to do a little experiment. Hand out a balloon to each student. Follow the instructions from <i>Sheet 14</i> ( <i>Support teaching resources 2</i> ) to do the experiment whereas give instructions to the students (thus students have visual support). Do not say to the students what the balloon represents neither what are the spots on it; wait for the last activity to give these pieces of information. Ask them: " <i>Can you imagine what the experiment is for?"</i> " <i>Do you guess what do both the balloon and the dots on it represent?"</i> Write their suggestions on a corner on the board but do not answer them.	25 balloons Marker pen STR 2 (Sheet 14) STR 2 (Power Point, slides 11 and 12) Projector Computer
"Half-blow", "Draw", "Finish blowing", "Look at", "Hold", "Tie" ACTIVITY 2: Journey to the Edge of the Universe!	RESOURCES
Grouping: plenary	NEEDED
Ask the students " <i>Do you want to do a trip across the Universe?</i> "Tell them to imagine they are in a space capsule ready to leave from Earth. Encourage the students to say all kind of things they would see in the Universe and write them down on the board (allow mother tongue). Show them a 6-minute video about the Universe, galaxies, stars, nebulae, planets, etc. The link for the video is: <u>http://www.youtube.com/watch?v=Zr7wNQw12l8&amp;feature=related</u> Compare the things students said with the issues that appeared in the video and discuss them aloud together with students.	Projector Computer Internet Board
ACTIVITY 3: Make your choice! Grouping: groups of three	RESOURCES NEEDED
Put the students into groups of three. Cut out, laminate and hand out the flashcards from <i>Sheets 15A, 15B</i> and <i>15C</i> . Show the video again (see	

THE SOLAR SYSTEM	TEACHING NOTES
reference in Activity 1 for the video link). Ask the students to identify and	
choose the flashcards with the words that appear in the video. Then,	STR 2 (Sheets
encourage the students to line the flashcards up in order of appearance.	15A, 15B and
Check their choices aloud and stick a corrected group's flashcards on the	15C)
board for the others to have visual support. Ask the students to think why	Projector
they dealt with these flashcards and why they saw such a video. Write their	Computer
suggestions on the board and discuss these altogether. Tell them lesson 5 is a	Internet
very brief look at galaxies, stars, nebulae, comets, constellations and	Board
asteroids, as parts of the things existing in the Universe.	
KEY SOLUTIONS (STR2, Sheets 15A, 15B and 15C)	
Flashcards in order of appearance: Sun, Gas giant, Galaxies, Planets, Stars, Neb	oulae, Milky Way
ACTIVITY 4: Beyond the Universe	RESOURCES
Grouping: groups of three	NEEDED
Put the students into the same groups of three. Hand out the slips of paper	
from Worksheets 13A, 13B and 13C. Each student reads two short texts from	
the boxes; ask them to explain briefly to each member of the group what the	
texts are about (allow mother tongue, but write down on the board some	Worksheet 13A
sentences in English so they try). Hand out Worksheets 14A and 14B to each	Worksheet 13B
group. Ask students to cut out the pictures and stick them in the empty boxes	Worksheet 13C
according to the item described. They write the name of the each item in the	Worksheet 14A
blank provided. Correct the exercise by showing the students Power Point	Worksheet 14B
(slides 13, 14 and 15 from <i>Support teaching resources 2</i> ); show them the	STR 2 (Power
picture and ask them to say its name aloud.	Point, slides 13,
Suggested sentences for the students to use when explaining the text read (to	14 and 15)
be written on the board):	Scissors
"(Name of the item) are small/big"	Glue
"adopt different forms such as"	Projector
"are made up of"	Computer
"have different parts such as"	
"We can see them"	
"There are different types of (name of the item)"	
" look like"	
KEY SOLUTIONS (Ws 13A, Ws 13B, Ws 13C, Ws 14A and Ws 14B)	1
Connection between boxes and pictures: 1-C; 2-E; 3-D; 4-B; 5-F; 6-A	
Raül Martínez Verdún CEIP I	Miquel de Unamuno

THE SOLAR SYSTEM

TEACHING NOTES

Names of the boxes: 1-Stars; 2-Comets; 3-Asteroids; 4-Galaxies; 5-Constellations; 6-Nebulae

	-
ACTIVITY 5: Identifying keys	RESOURCES
Grouping: groups of three	NEEDED
Put the students into the same groups of three. Hand out Worksheet 15 and	
ask them to complete the grid given. They can use the flashcards from the	
previous activity to do this exercise. Correct the answers with the whole group	
aloud and write them down on the board so the students have visual support.	Worksheet 15
Ask them to get the balloon; then refer to their previous suggestions written	Board
on the board and ask the students if they know what the balloon represents	
and what the dots are. If not, tell them. Remind students to put	
worksheets/slips in their portfolio.	
KEY SOLUTIONS (Ws 15)	
1-Stars; 2-Asteroids; 3-Nebulae; 4-Constellations; 5-Galaxies; 6-Comets	

TEACHING NOTES	THE SOLAR SYSTEM			
UNIT 2: THE PLANETS	SUBJECT: SCIENCE	LESSON 6: MAKING THE SOLAR SYSTEM	<b>TIMING:</b> 60 MINUTES	COURSE: 6th GRADE
<b>OUTLINE</b> Relate this lesson to Art and Maths. Place all the materials needed to make a Solar System on th teacher's table (see <i>Resources needed</i> from Activity 1). Start the lesson with a recognition activit in which students identify some key vocabulary. Continue with a brainstorming activity. Ther start making the Solar System with students. End the lesson with an oral activity by means of which students remember quick facts about the planets, using the portfolio papers to help them.				recognition activity ning activity. Then, ctivity by means of
<b>ACTIVITY 1:</b> <i>Recognizing key vocabulary</i> Grouping: pair work/groups of three/plenary			RESOURCES NEEDED	
Grouping: pair work/groups of three/plenary Cut and hand out a slip of paper from <i>Sheet 16</i> ( <i>Support teaching resources 2</i> ) to half of the students. Hand out the materials to the other half. Tell the students to find a partner whose word from the slip corresponds with the material by asking and answering in English. Check orally if the "pairs" are correct. Then, put the students into the same groups of three as in previous lessons and hand out <i>Worksheet 16</i> . Give them a few minutes to get familiar with the new vocabulary learnt (visual support); say the name of the materials			Crayons Felt-tip pens Black poster paper	

Raül Martínez Verdún

CEIP Miguel de Unamuno

aloud and ask the students to point them out. To finish, use realia to consolidate the vocabulary: show them the materials and they say their names aloud. Suggested sentences for the students with materials when trying to find	Two compasses
aloud Suggested sentences for the students with materials when trying to find	White paper
abud. Suggested sentences for the students with matchais when if ying to find	Cotton wool
their partner (on the board):	Coloured tissue
"What have you got on your paper?"	paper
"Do you have?"	Glue
"My word is"	Scissors
"I've goton my paper."	STR 2 (Sheet
Suggested sentences for the students with slips when trying to find their	16)
partner (on the board):	Worksheet 16
"Is the name of your material?"	Board
"Do you have?"	
KEY SOLUTIONS (STR 2, sheet 16; Ws 16)	
See Sheet 17 from Support teaching resources 2 to check the connection betwee	en some materials
and their written form.	
ACTIVITY 2: What is it for?	RESOURCES
Grouping: groups of three/plenary	NEEDED
Ask the students to think what they could do with such materials. Ask each	
group about their ideas and write them down on the board so the students	
have visual written support. Discuss the students' ideas leading them to what	Board
the new activity is about.	
ACTIVITY 3: Making the Solar System	RESOURCES
Grouping: groups of three	NEEDED
Put the students into the same groups of three. Explain they are going to	
make the Solar System. Each group concentrates on their planet. If possible,	
stick the black poster paper ( $3m \times 80cm$ ) on one wall and draw a section of	
the Sun (see <i>Power</i> Point, slide 2 from <i>Support teaching resources 2</i> .). If not,	
cut the black paper to fit each of the separate planets to go in any space on	
the classroom wall. In this case, the Sun is on a separate sheet, and can be	-
drawn as a full circle (not to scale). First of all, the students need to work out	,
the size of their planet (to scale). Write on the board the formula to work out	Board
the size: real diameter divided by 2000. E.g. Earth's diameter is 12,760 km;	
so 12,760 : 2000 = 6,38. This gives a measurement in centimetres. Students	
the Sun (see <i>Power</i> Point, slide 2 from <i>Support teaching resources 2</i> .). If not, cut the black paper to fit each of the separate planets to go in any space on the classroom wall. In this case, the Sun is on a separate sheet, and can be	(See Activity 1) STR 2 (Sheets 7A - 7D)

THE SOLAR SYSTEM	TEACHING NOTES
need to refer to Sheets 7A - 7D (Support teaching resources 2) from the	
portfolio to get the real diameter. Students get some white paper and draw	
their planet to scale; then cut it out. They think about the features of their	
planet and colour and/or decorate it using the materials suggested above.	
Groups with smaller planets help colour and decorate the Sun. When finished,	
help them to stick the planets in order on the black sheet or on separate black	
sheets around the room.	
Classroom language to be used throughout the activity when giving	
instructions:	
"Cut out", "Prepare", "Stick", "Put", "Place", "Use", "Get"	
"Colour in"	
ACTIVITY 4: My portfolio!	RESOURCES
	RESOURCES NEEDED
ACTIVITY 4: My portfolio! AFL Activity (2)	
ACTIVITY 4: My portfolio! Grouping: groups of three AFL Activity (2)	
ACTIVITY 4: My portfolio!       AFL Activity (2)         Grouping: groups of three       Put the students into groups of three. Explain they are going to work with the	
ACTIVITY 4: <i>My portfolio!</i> Grouping: groups of three Put the students into groups of three. Explain they are going to work with the portfolio papers so ask them to take them out. Give the students 5 minutes to	NEEDED
ACTIVITY 4: <i>My portfolio!</i> Grouping: groups of three Put the students into groups of three. Explain they are going to work with the portfolio papers so ask them to take them out. Give the students 5 minutes to revise all the information about their planet they have on their papers; then,	NEEDED Portfolio papers
ACTIVITY 4: <i>My portfolio!</i> Grouping: groups of three Put the students into groups of three. Explain they are going to work with the portfolio papers so ask them to take them out. Give the students 5 minutes to revise all the information about their planet they have on their papers; then, ask them to stand close to the planet they made and in 1 minute say as many	NEEDED
ACTIVITY 4: <i>My portfolio!</i> Grouping: groups of three Put the students into groups of three. Explain they are going to work with the portfolio papers so ask them to take them out. Give the students 5 minutes to revise all the information about their planet they have on their papers; then, ask them to stand close to the planet they made and in 1 minute say as many things as they remember about their planet. Remind them it does not matter	NEEDED Portfolio papers
ACTIVITY 4: <i>My portfolio!</i> Grouping: groups of three Put the students into groups of three. Explain they are going to work with the portfolio papers so ask them to take them out. Give the students 5 minutes to revise all the information about their planet they have on their papers; then, ask them to stand close to the planet they made and in 1 minute say as many things as they remember about their planet. Remind them it does not matter whether their oral production is limited to a word or more. Count aloud the	NEEDED Portfolio papers

TEACHING NOTES	THE SOLAR SYSTEM			
UNIT 2: THE PLANETS	SUBJECT: SCIENCE	LESSON 7: CONSOLIDATING KNOWLEDGE	<b>TIMING:</b> 60 MINUTES	<b>COURSE:</b> 6th GRADE
OUTLINE				
Last lesson from unit 2 is to consolidate knowledge and to officialise the learning/teaching process				
through some assessment activities. Start the lesson with an AFL activity in which students play a				
game template. Continue with a short test. Then, in pairs, students get fun by calculating their				
ages in other planets. End up with a self-assessment activity.				

THE SOLAR SYSTEM	TEACHING NOTES
ACTIVITY 1: Game template Grouping: groups of three AFL Activity (3)	RESOURCES NEEDED
Put the students into groups of three. Hand out <i>Worksheets 17A</i> and <i>17B</i> . Explain they are going to revise some concepts from unit 2 "The planets" by playing a game. There is a photocopy with 24 squares and sentences (Ws 17A) which is connected with another with 24 blank squares (Ws 17B). Ask students to choose a "teacher" in each group to write answers in the blank squares; the other two read the sentences and give answers aloud. Throw the 4 dice on the table and write the numbers on the board. Tell the students to make their choices by adding or subtracting the number on the dice so as to get a square according to the number calculated. Give them 2 minutes to write their answer and then throw the dice again. Every two times the dice are thrown, students change their role in the group. Students do not need to fill in all the blanks. Wait 15 minutes until finishing the game. Correct the exercise aloud along with the students. Then, show students <i>Power Point</i> (slide 16 from <i>Support teaching</i> )	Worksheet 17A Worksheet 17B STR 2 (Power Point, slide 16) 4 dices Board Projector Computer
<i>resources 2</i> ) to check their answers. Make comments on these altogether. <b>KEY SOLUTIONS</b> (Ws 17B)	
See Support teaching resources 2 (slide 16)         ACTIVITY 2: Testing what you know         Grouping: individual    AOL Activity (1)	RESOURCES NEEDED
Hand out <i>Worksheets 18A, 18B</i> and <i>18C</i> . Explain to the students they are going to do a short test to check what they have learnt so far. It is meant to be done individually and in silence, without them being allowed to look at any paper from the Portfolio. When finished, ask the students all the questions aloud and encourage them to answer (whole group correction first without the worksheets; individual correction afterwards).	Worksheet 18A Worksheet 18B Worksheet 18C
<b>KEY SOLUTIONS</b> See <i>Sheets 18A,</i> 18B and <i>18C</i> ( <i>Support teaching resources 2</i> ).	
ACTIVITY 3: How old are you? Grouping: pair work	RESOURCES NEEDED
Ask the students how old they are and write some of their answers down on the board. Tell them this is true for planet Earth, but ask if they think it would be the same on other planets. Ask students if they liked to know how old they	

THE SOLAR SYSTEM	TEACHING NOTES	
would be on other planets. Put them in pairs and hand out Worksheets 19A		
and 19B. Students follow the instructions specified in the worksheet to		
complete the exercises. Help them by writing down on the board an example		
of how to calculate a person's age on other planets (there is one in worksheet		
19A). Then, tell them to use more than one personal pronoun when completing	Worksheet 19A	
the sentences from the substitution table exercise (they ask each other in turns	Worksheet 19B	
and are expected to use I/you). Ask them to stand up and ask some other	Calculator	
classmates about their ages on other planets (they keep the papers with them;	Board	
just orally). Ask them about their ages on other planets and lead them to use		
other personal pronouns such as "We", "You", "They", etc.		
Suggested questions for the students to use when asking other classmates (to		
be written on the board):		
"How old are you on (name of a planet)?" (To be used "I" and "You")		
"How old is your partner on (name of a planet)?" (To be used "She/he")		
Main structure worked throughout the activity:		
"On (name of a planet) I amyears old."		
KEY SOLUTIONS (Ws 19B)		
These results have been calculated supposing 12 as the age of students: Mercury-50 years old;		
Venus-19; Earth-12; Mars-6; Jupiter-398; Saturn-151; Uranus-52; Neptune-26		
ACTIVITY 4: Self-assessment	RESOURCES	
Grouping: individual AFL Activity (4)	NEEDED	
Hand out Worksheet 20. Explain to students they are going to do a very short		
self-assessment exercise. Ask them to read all the items from the sheet		

carefully and then answer. Make general comments on it with the whole group.

Remind students to put worksheets/slips in their portfolio.

Worksheet 20