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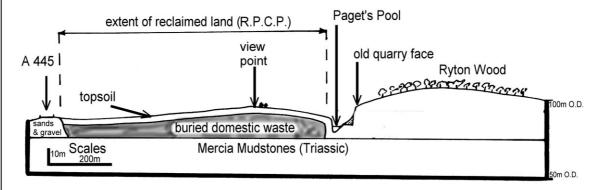
WORKSHEET 1	Pupil Name
Location 1: Rock Type Description	Sheet.
Rounding /angularity scale 1 2 3 4 5 6 6 well angular rounded rounded rounded	DESCRIPTION OF ROCK AT LOCATION 1
Is the material made of loose pieces or is it in a layer?	
Are the pieces in the rock mainly the same size, or are there different sizes?	
Are the fragments mainly rounded or mainly angular?	
Is the rock making up the fragments porous or not?	
Does it react with dilute HCl.?	
Is the rock made of interlocking crystals? If so how many different coloured ones can you see?	
Is the rock made up of fragments "stuck" together?	
What kind of rock is this Igneous, metamorphic or sedimentary?	
In what environment was it probably formed?	

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WORKSHEET 2

Pupil Name

- 1) Mark on the sketch below the east and west ends of the section.
- 2) At the viewpoint, what lies below the topsoil? _____
- 3) Approximately how far below the soil is it? ______metres



- 4) Explain why you can't see the Mercia Mudstone outcropping in the middle of the Country Park.
- 5) Explain why you can't see the sands and gravels in the middle of the Country Park.
- 6) The Mercia Mudstones are non-porous. How do you think this affects the water level in Paget's Pool?

Location 5: At the old quarry face draw in the horizontal bedding plane on the right hand side of the section between the sands and the till. (Dotted line where it is above ground, and solid line below ground)

Draw an arrow and label the slumped material (which is already marked on the sketch).

RYTON POOLS, WARWICKSHIRE: KS3 PUPIL WORKSHEETS © UKRIGS ESO-S Project

WORKSHEET 3	Pupil Name
Location 3: Old Landscapes Un Use the information on the disp	der Your Feet. Dlay board to help you answer the questions below.
What name was given to the river which flowed through here 500,000 years ago?	
What kinds of sediment did this river deposit?	
What animals lived by this river, died and had their bones buried in the gravel?	
What was the climate like 500,000 years ago?	
What human-made tools have been found and what were they made of?	
What did the humans eat?	
What eventually happened to make the animals and humans move away from the area?	

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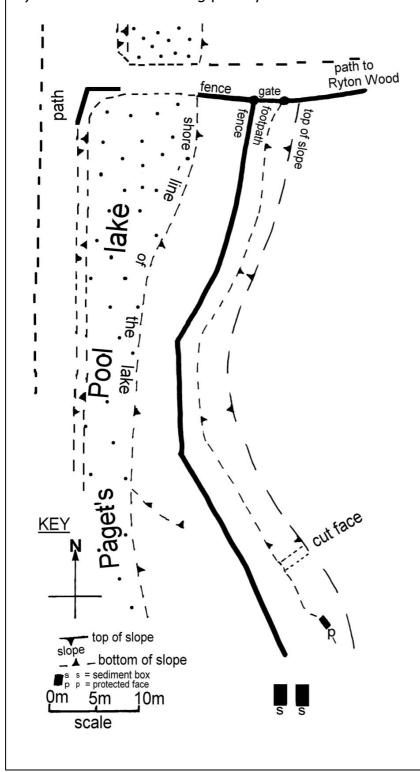
WORKSHEET 4

Pupil Name

Locations 4 and 5: Base Map.

On your base map mark on the following:

- 1) The places where you saw the paths being eroded.
- 2) The place where you did your pebble survey.
- 3) The line of the bedding plane you saw between the till and the sand.



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Pupil Name

Location 5: Describing the Pebbles.

Drop a marker (e.g. a pen) over your shoulder and pick the 50 pebbles closest to it. Put them into 4 groups (quartz, metamorphic, igneous & sedimentary) and write the numbers in each group in the table below. Add the results from another group.

	Vein quartz (White)	Metamorphic (brownish)	Igneous (interlocking crystals)	Sedimentary (cemented grains)
GROUP 1 (YOUR RESULTS)				
GROUP 2				
TOTAL (& %)	%	%	%	%

Describing rounding.

Use this scale to describe the roundness of your 25 pebbles. Mark a cross for each pebble.











	1	2	3	4	5	6
	(very angular)	(angular)	(sub angular)	(Sub rounded)	(rounded)	(Well rounded)
Number						
of						
pebbles						

Speed Of Current. Measure the long axis of the largest pebble and use the table below to estimate the speed of flow of the river which deposited it.

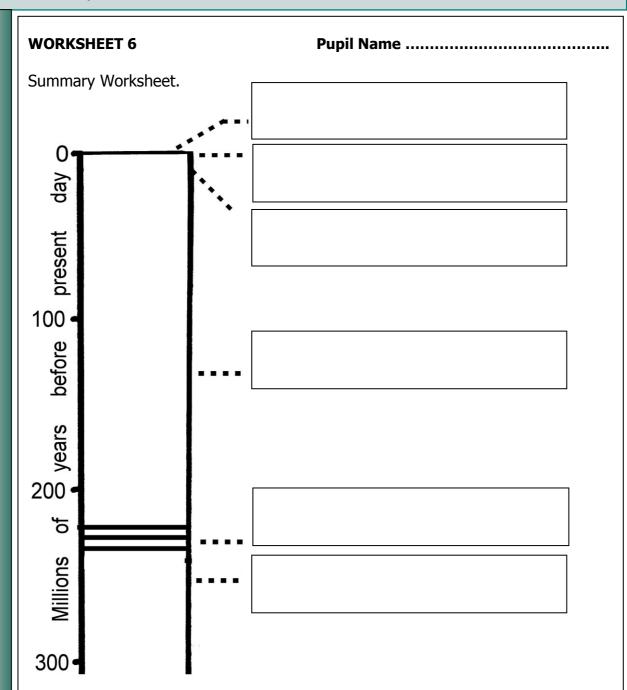
Diameter of	4mm to 64 mm	2mm to 4 mm	2mm to 0.5 mm
Fragment in mm.	(Pebble)	(Gravel)	(Coarse sand)
Minimum Velocity	100 cm per second	60cm per second	12 to 15 cm per
to Deposit this	(very strong flow)	(very fast flow)	second
Fragment		-	(normal stream flow)

To deposit these pebbles the flow must have been at least____cm per second.

Now explain how you think this deposit was formed?

Remember to include observations about weathering, erosion, and transport (flow velocity), followed by deposition. How did these things happen? What is your evidence for these conclusions?

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Write each of the sentences below in the correct box in the summary column above:

- 1) A very long period of weathering and erosion.
- 2) Deposition of the Mercia Mudstone in a desert lake environment.
- 3) Transport & deposition of rounded pebbles to form Triassic rocks. (Rock Cycle 1)
- 4) Deposition of till in a glacial environment. Ice moving from the north.
- 5) Weathering and erosion of the till and sands and gravels begins after glaciation. (Rock Cycle 3)
- 6) Deposition of sand and gravel in a river flowing northeastwards. (Rock cycle 2) The climate is mild, but gradually getting colder.

RYTON POOLS, WARWICKSHIRE: KS3 PUPIL WORKSHEETS © UKRIGS ESO-S Project

ebbles and Rock			
	are some not sti	happening to thes and? What might h	
		hat can you say a evidence for tran	
		le: The rounded q	uartz and