3:01 Test: Working Mathematically

1 : having difficulty
2 : developing understanding
3 : progressing well

Questions that could be used

Questioning

(1) What questions could you ask about this picture that would use addition, subtraction, multiplication or division to solve it?
(2) What questions could you ask to compare lengths, distances, or masses of objects?
(3) What other maths questions could you ask about this picture?

Suggestion
Have the children place their text books so that the front and back covers are facing upwards. They could be asked questions relating to that cover.

Applying Strategies

(1) Which would be the largest/smallest, heaviest/lightest creature in this picture?
(2) If the animals on the inflatable boat are drifting one metre every 5 seconds, how far will they drift in one minute?
(3) How would you measure the depth of the rockpool?
(4) How many sections would be on the top of the unbrella?
(5) Estimate the number of spots on the boy's float.
(6) Order the distances of the creatures from the shore, from closest to furthest.

Communicating

(1) From this picture choose a group of things that have something in common. How did you choose your group? How many things are in your group?
(2) Describe a pathway the children could have taken to get from the top of the cliff to the water.
(3) Why do you think the pelican is sitting on the post?
(4) What might make the animals and children leave the water?
(5) Describe the shape of the inflatable boat that has an umbrella.

Reasoning

(1) From where could you be viewing the scene?
(2) What do you think the weather is like? Give reasons for your answer.
(3) What objects in the picture are out of proportion to their real size?
(4) How deep do you think the water is, where the children are floating?
(5) Where could the seagull land?

Reflecting

(1) Which creature would have a mass less than 1 kilogram?
(2) Would it be impossible, unlikely, likely or certain that: (a) the inflatable boat would sink?
(b) the pelican would catch a fish?
(3) How do you think the rockpool was made?
(4) When would the rockpool have the least amount of water in it?
(5) How old do you think the children might be?

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