

WELCOME TO GCSE GEOGRAPHY



WHERE WILL IT TAKE US TODAY?



TOPIC 3: DISTINCTIVE LANDSCAPES

3.2a: WHAT PHYSICAL PROCESSES SHAPE LAND-SCAPES?

ai) The formation of erosional coastal landforms

06/06/2018

LEARNING IS SUCCESSFUL WHEN I ...

Know:

- ✓ What headlands, bays, caves, arches, stacks and stumps are

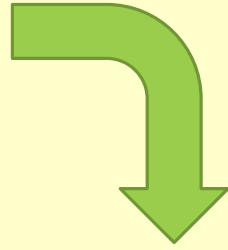
Understand:

- ✓ How they form

Employability Skills:

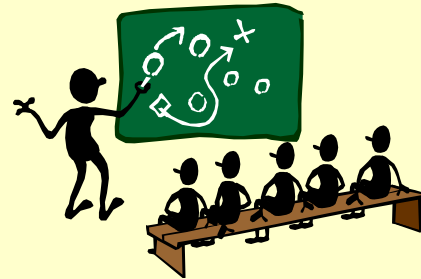
- ✓ Resilience/Determination
- ✓ Team-work





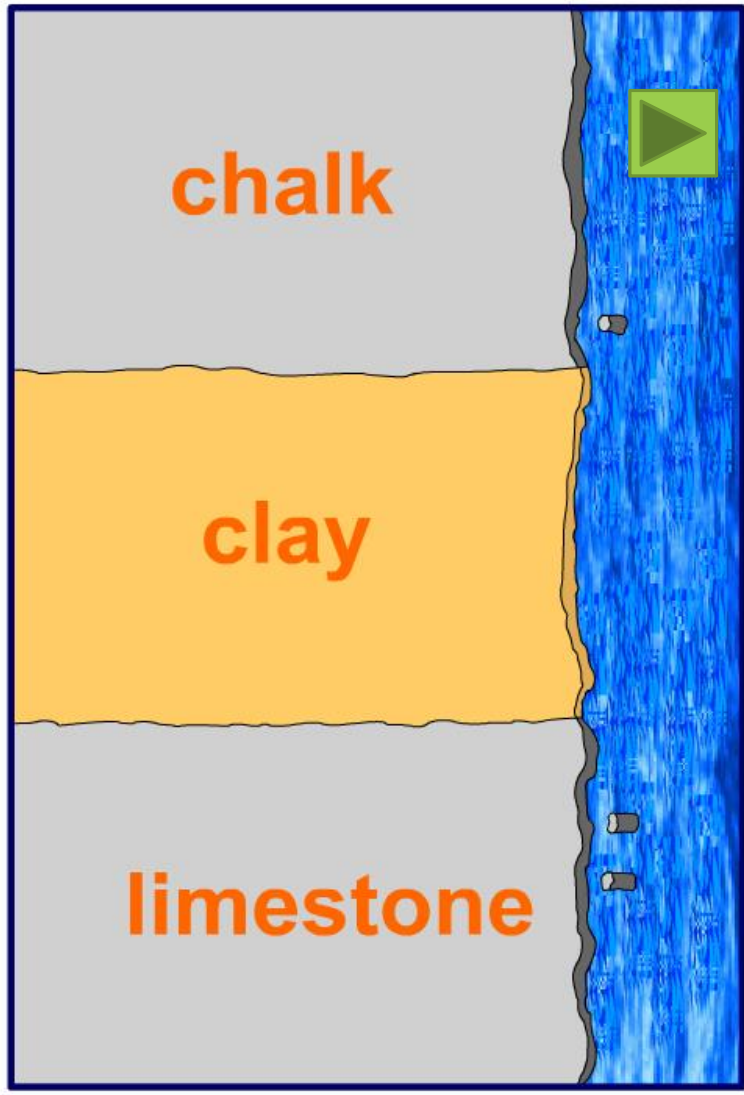
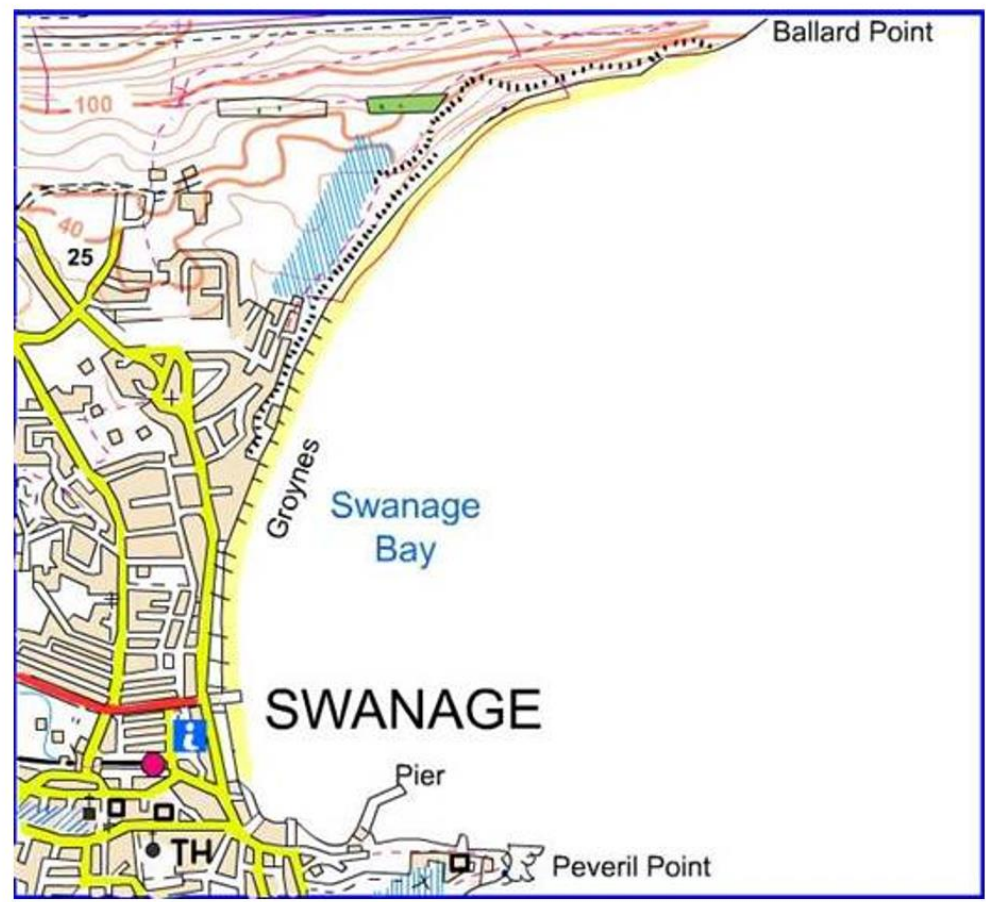
PRESENT NEW INFORMATION

LOOK, LISTEN, LEARN



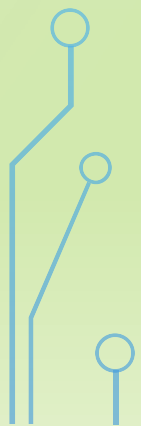


Headlands and Bays – What and Why?

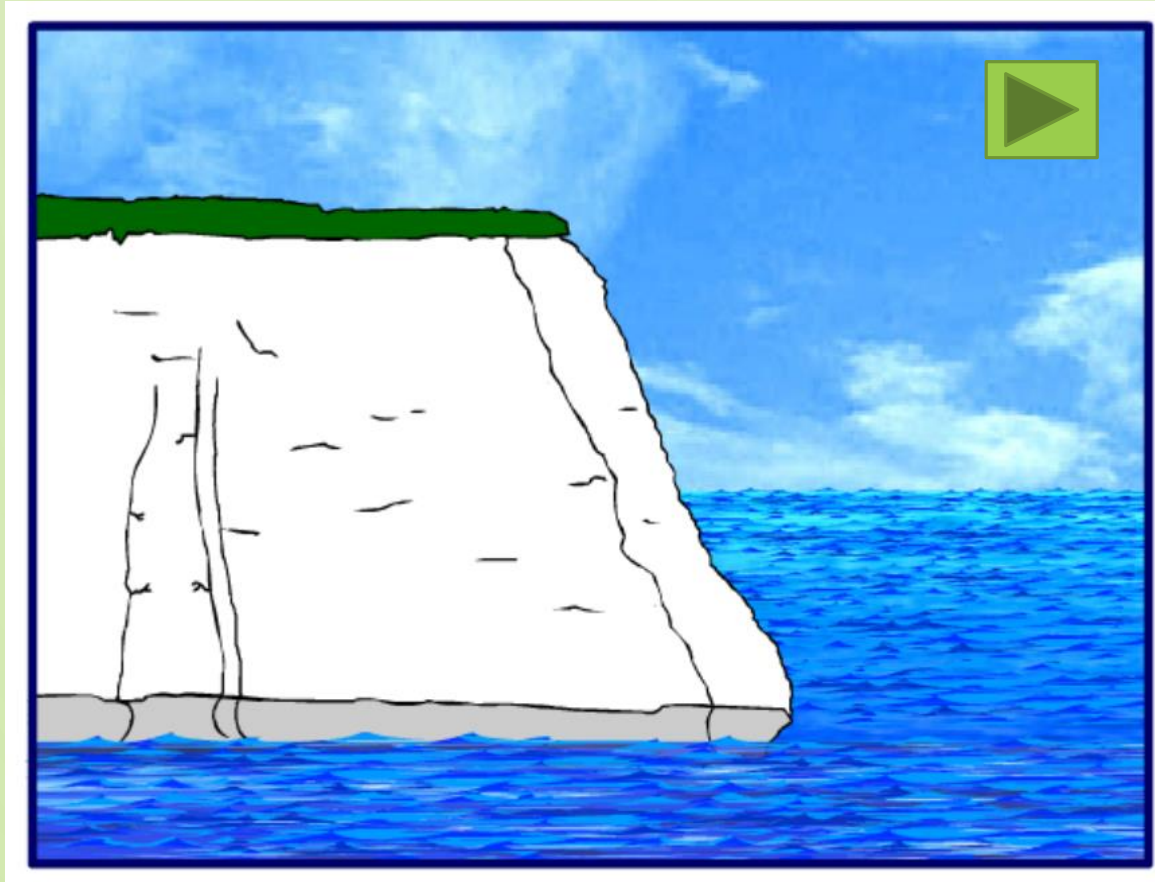


Hard
Soft
Faster
Slower
Headlands
Bays
Ballard Point
Peveril Point

Draw a before and after diagram to show how headlands and bays form. Use the geo-lingo on the right hand side of this slide.



Headlands are dynamic and evolve over time



F – C – C – A – S – S

1. What are the six stages?
2. How do they happen?

**Welcome to Old
Harry's world!**



3. How well can you recreate Harry's life using playdoh?



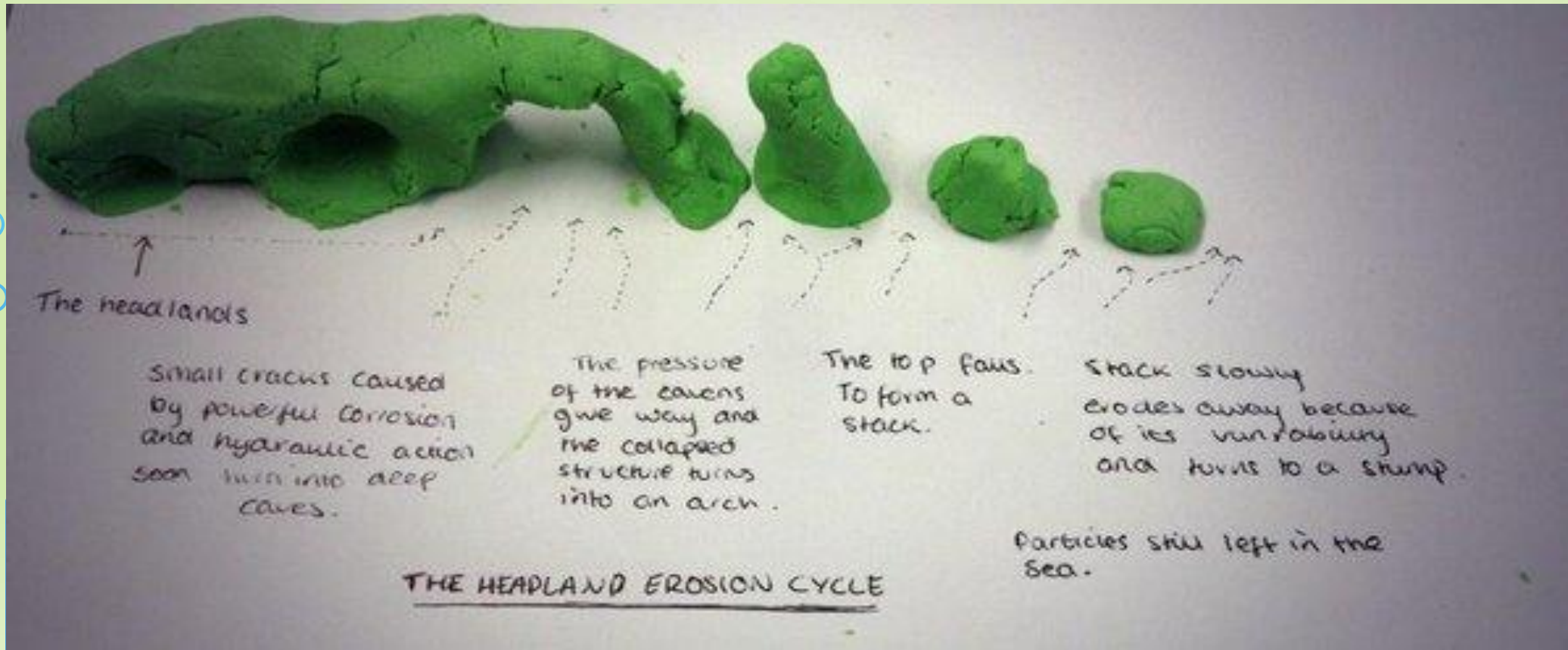
**APPLY TO
DEMONSTRATE**
SHOW THAT I UNDERSTAND



CAVE, ARCH, STACK, STUMP MODELLING

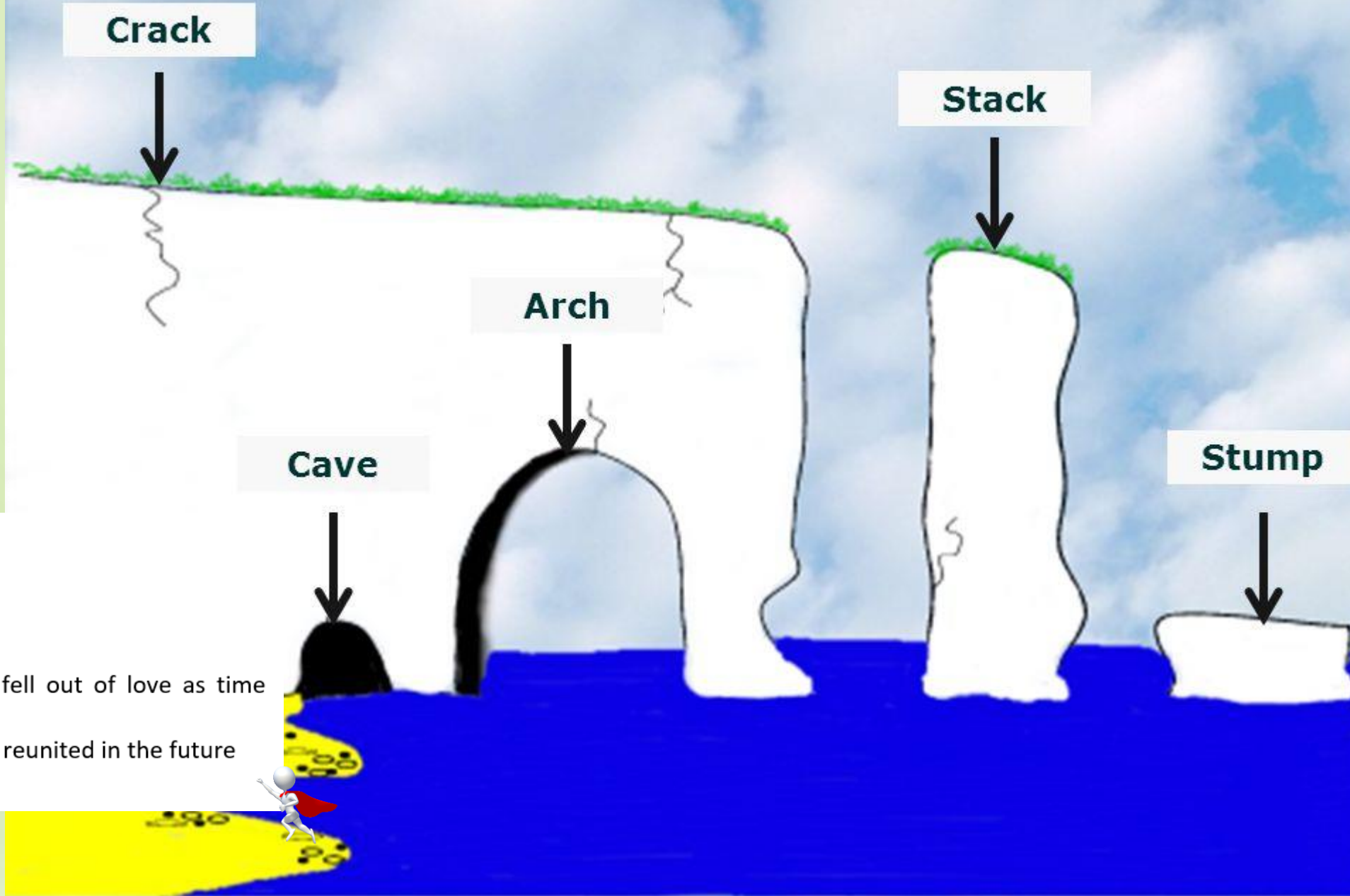
WAGOLL

<https://www.youtube.com/watch?v=k8DyRbapq94>



Erosion of a Headland

1.
What's
missing?



Which of these is

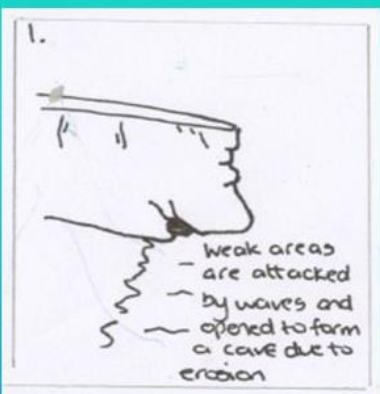
- (a) Possible?
- (b) Most likely?

- Old Harry 'dumped' his Missus
- Old Harry and his Missus just fell out of love as time passed by
- Old Harry and his Missus will be reunited in the future
- Old Harry was a bigamist



CAVE, ARCH, STACK, STUMP STORYBOARD

- <https://www.youtube.com/watch?v=UWIO90HxhEQ>
- Even better: <https://www.youtube.com/watch?v=CtkrcpUydVk#t=34>



Key Words

Headland Bay Chalk

Hard rock Soft rock

Differential erosion

Erosion Abrasion Attrition

Hydraulic Action Human Activity

Weathering Biological

Freeze-Thaw Crack

Cave Arch Stack

Stump Collapse

Transportation Deposition

Skills Check: Field Sketches

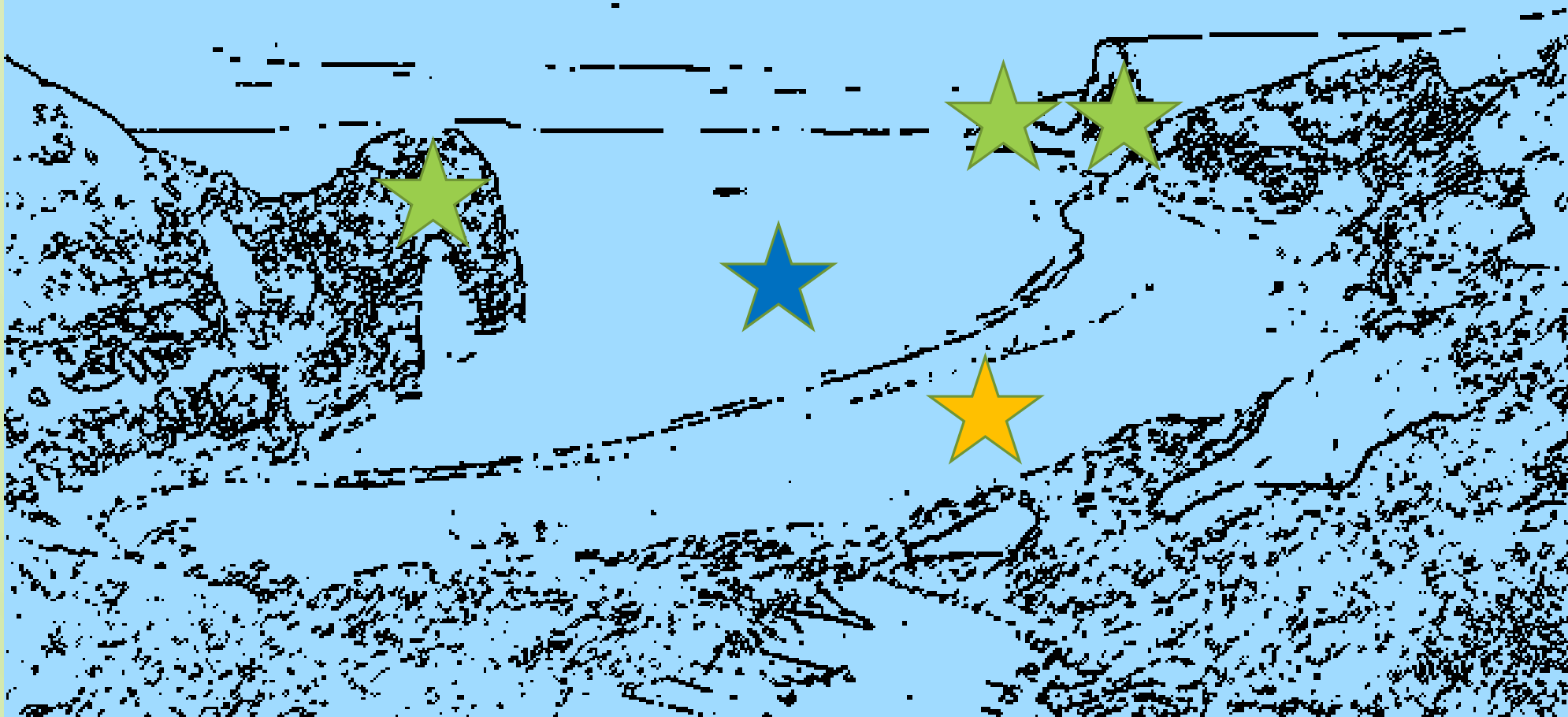


Must: Make a sketch of this photograph

Should: Add and label the features that you can see

Could: Annotate how these features have been formed- as much detail as possible

Make a key that helps explain my use of different colours



WHAT WOULD AN EXAM QUESTION LOOK LIKE?

6
mins

**Outline the role of erosion in shaping a headland
[4]**

Steps to Success

1. Tell the examiner what erosion is and how big a role it plays
2. Explain the stages of headland formation including the role erosion plays at each point



WHAT WOULD AN EXAM ANSWER LOOK LIKE?

Outline the role of erosion in shaping a headland [4]



Page
n/a

8
mins peer
assess

Erosion plays a **major role** in the shaping of a headland. Erosion *patiently* finds a fault or weakness in the headland to attack. This is widened into a crack by repeated hydraulic action (shock waves sent into the rock by waves compressing air in the faults and solution (salt crystals 'dissolve' the rock). This repeats until a widened hollow or cave is formed. Over time the back of the cave is removed by further erosion (abrasion – when sediment is thrown into the cave by waves which then scours the sides and back away) and an arch is formed. Here erosion is helped by weathering on the top of the arch, which eventually collapses to leave a stack. Stormy weather helps erosion in its work, as does geology, although in this case the resistant chalk takes longer to break down.





REVIEW

WHAT HAVE I LEARNT?



Something I don't really get from today's lesson is

Review time

5 mins

Watch the video clip ...

Name the erosion type and give an example of a feature it helps to create

<https://www.youtube.com/watch?v=UCgxLKxglp8>



Something I have totally nailed from today's lesson is

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