

Outdoor & Woodland Learning Activity Sheet

Activity:	Create your own craters								
Habitat:	Seashore	Season:	S	✓	S	✓	A	✓	W

Level	
Early	
First	
Second	✓
Third and Fourth	✓
Senior Phase	

Curriculum topics			
Expressive Arts		Health and Wellbeing	
Languages	✓	Mathematics	✓
Religious & Moral Ed		Sciences	✓
Social Studies		Technology	

Equipment*
Create your own Craters worksheet
Barringer Crater images
Spades
Measuring tapes
Pencil

Time
30 minutes – 1 hour

Key outcomes
Learn about meteorites
Apply maths to create crater size proportional to a rock that would create it

*Items depicted in bold are available from CALLP

Activity description
<p>Discuss craters:</p> <ul style="list-style-type: none"> • What is a meteorite? • How do we know meteorites have fallen to Earth? (<i>craters</i>) • Size of crater depends on size of meteorite. (<i>Picture of Barringer Crater</i>) • <i>Referring to Barringer Crater:</i> This is a 1000 m crater created by an object approximately 50 m in diameter. • How much bigger is the crater than the meteorite? (<i>20 X</i>) • Craters are usually approximately 20 times bigger than the meteorite that created it. <p>Create your own craters: <i>Refer to worksheet</i></p>

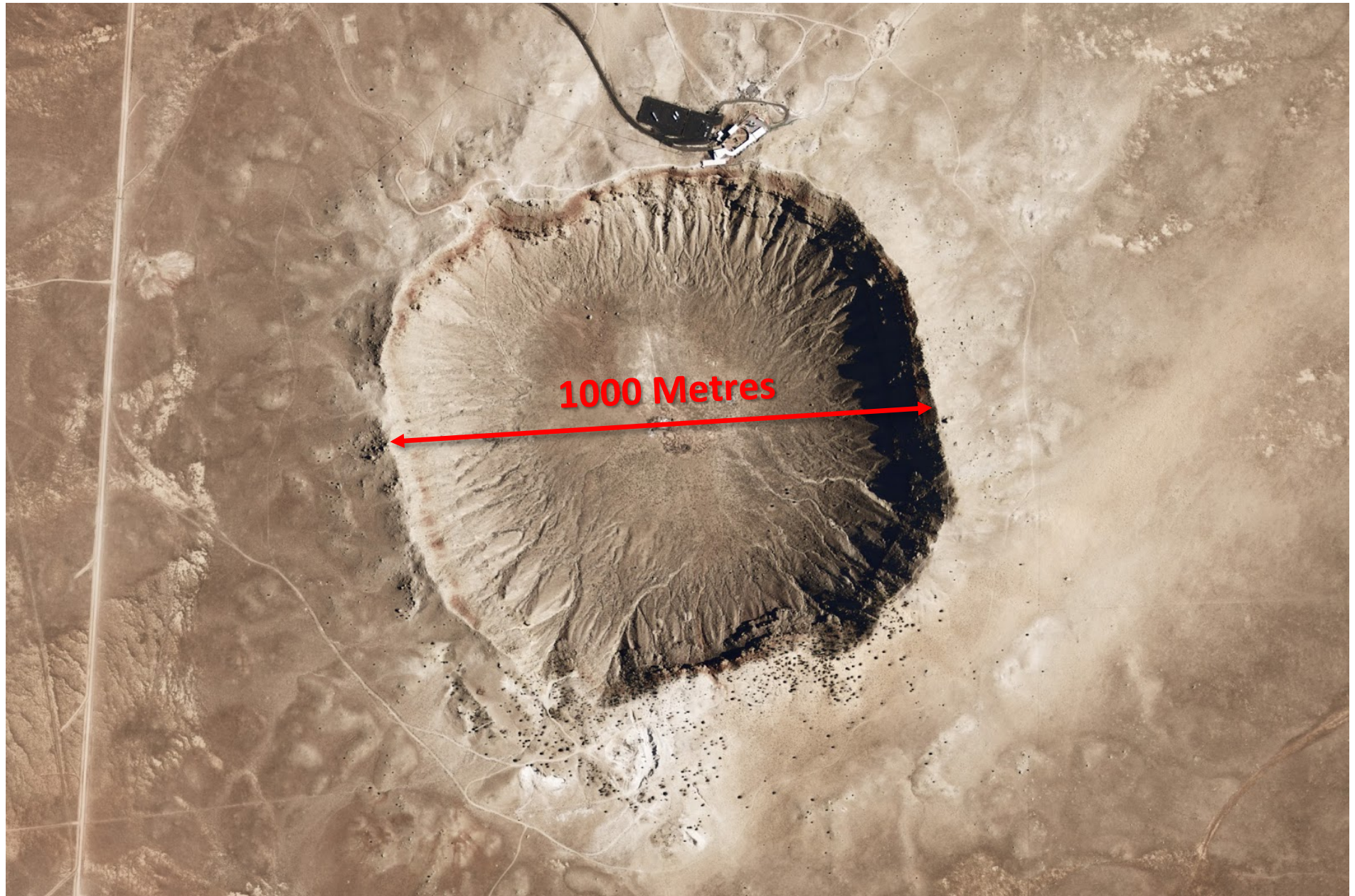
Notes
<p>Can link to Stac Fada meteorite at Stoer Beach. Better for warmer days (not an active activity)</p>



The Barringer Crater – Arizona desert, USA



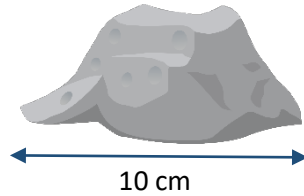
The Barringer Crater – Arizona desert, USA (Birds-eye view)



Create your own craters

5 times, 10 times and 20 times the size of your meteorite rocks

1. Measure the size of your rocks using a tape measure

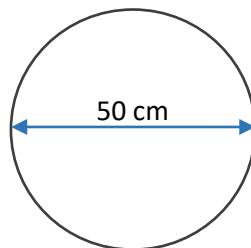


2. Multiply the measurement of the rock by 5 (write down the sum if you'd like to)

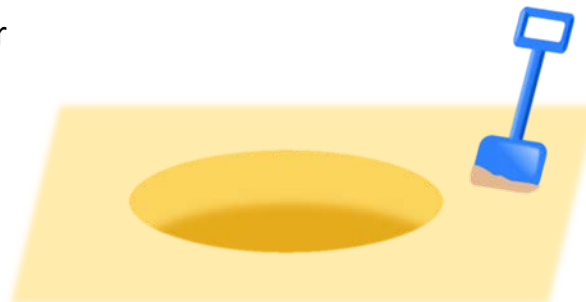
$$\begin{array}{r} 10 \\ \times 5 \\ \hline 50 \text{ cm} \end{array}$$

This answer gives you the diameter of the crater

3. Measure out the diameter on the sand and draw the size of the crater.



4. Dig your crater



Repeat this using 10 and 20 to multiply the size of your rock, if you have time.