| Circular Mirrors: | Diameter | 1 m | 2 m | 3 m | 4 m |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Gaps between mirrors = light lost <br> Gaps within this mirror set-up reduce the total collection area by 10\% <br> To calculate your effective mirror diameter: = diameter of single mirrors combined $x 0.9$ | Mirror |  |  |  |  |
|  | Cost | £2 million | $£ 4$ million | £8 million | £16 million |
|  | Weight | 500 kg | 1000 kg | 1500 kg | 2000 kg |
| Hexagonal Mirrors: | Diameter | 1 m | 2 m | 3 m | 4 m |
| To calculate your effective mirror diameter: = diameter of single mirrors combined | Mirror |  |  |  |  |
|  | Cost | £3 million | £6 million | $£ 12$ million | £24 million |
| Note: sizes of mirrors can be combined | Weight | 415 kg | 830 kg | 1240 kg | 1654 kg |

## You must consider...

$\star$ How the different shaped mirrors fit together and how much light is lost through any gaps.
is The overall weight of their mirror - the lighter the better - this will affect which materials they can use for the structure.
it How easily the mirror will be able to be transported to site.
is The total diameter of the mirror - the larger the mirror the fainter the objects they will be able to see - this means that they will be able to look for objects at greater distances. is The price of the mirror.
\& How easily the mirror can be assembled on site.

