

## Phases of the Moon

### Effects on Tides

**School Name:** Desert Academy

**Team Number:** DesertAcad-3

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**Sponsoring Teacher:** Mario Ruiz

**Project Mentor:** Stephen Guerin

#### **The problem:**

The problem we're evaluating is the fact that the phases of the moon can affect tidal waves and we want to educate people about this.

(We want to educate people how tidal waves are affected by the moon.)

**Area of Science:** Earth Science

**Why this is important:**

This is important because we want to see why and how this happens and how it could greatly affect waves.

**What we hope to show (results we hope to obtain):**

We hope to show that the moon affects the moods of the waves can differ depending on the moon's phase.

**Plan of Action/Methods (How we plan to work on it):**

Using Netlogo, we will design a model of a moon affecting the waves of the ocean. We will set the moon up and then we will code it to change (as it does in real life) when the moon goes away.

**Progress**

We have already made the shape of a moon for each different phase. We are still trying to figure out how to make waves. We tried using some models from the models library as reference.

**Sources:**

[Phases of the moon link](#)

[Phases of the moon research](#)

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## Phases of the moon research

Our study has concluded that the gravitational pull of the moon does put an effect on the tidal waves. The moon is emitting it's light on the earth, the bigger effect it has on the tidal waves.



Before

After

That is the end of our presentation about the phases of the moon.